


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING				FORM 3 AMENDED REPORT <input checked="" type="checkbox"/>		
APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER Helper State 12-3		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT HELPER		
4. TYPE OF WELL Gas Well Coalbed Methane Well: YES				5. UNIT or COMMUNITIZATION AGREEMENT NAME		
6. NAME OF OPERATOR ANADARKO PETROLEUM CORP				7. OPERATOR PHONE 307-752-1169		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL Laura.Gianakos@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ST UT ML-45805		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2113 FNL 524 FWL	SWNW	3	14.0 S	10.0 E	S
Top of Uppermost Producing Zone	2113 FNL 524 FWL	SWNW	3	14.0 S	10.0 E	S
At Total Depth	2113 FNL 524 FWL	SWNW	3	14.0 S	10.0 E	S
21. COUNTY CARBON		22. DISTANCE TO NEAREST LEASE LINE (Feet) 524		23. NUMBER OF ACRES IN DRILLING UNIT 80		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1000		26. PROPOSED DEPTH MD: 2312 TVD: 2312		
27. ELEVATION - GROUND LEVEL 5827		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE City of Price		
ATTACHMENTS						
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Kathy Schneebeck-Dulnoan		TITLE Staff Regulatory Analyst		PHONE 720 929-6007		
SIGNATURE		DATE 08/25/2010		EMAIL GNBRegulatory@anadarko.com		
API NUMBER ASSIGNED 43007500700000		APPROVAL  Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	261		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	261	24.0			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	5.5	0	2312		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	2312	15.5			

Helper Plan of Development
Carbon County, Utah
OPERATOR: Anadarko Petroleum Corporation

MASTER DRILLING PROGNOSIS PRODUCTION WELLS

WELL LIST:	Sec/T/R	Quarter/Quarter	Footages		Total Measured Depth
Helper State 12-3	3 T14S R10E	SWNW	2113' FNL	524' FWL	2312
Helper State 32-3	3 T14S R10E	SWNE	2066' FNL	1947' FEL	2506
Helper State 32-36	36 T13S R10E	SWNE	2142' FNL	2345' FEL	3215
Helper State 33-4	4 T14S R10E	NWSE	2601' FSL	2162' FEL	2579
Helper State 43-2	2 T14S R10E	NESE	1506' FSL	480' FEL	2136
Vea 32-32	32 T13S R10E	SWNE	1798' FNL	1886' FEL	3225

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

<u>Formation</u>	<u>Shallowest Depth</u>	<u>Deepest Depth</u>
	<u>Measured</u>	<u>Measured</u>
Ferron	1836	2925
TD	2136	3225

2. ESTIMATED DEPTH OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Primary Objective: Ferron Methane Gas

Several coal seams may be tested for gas producing formations to total depth. All shallow water zones will be protected with casing and cement. Cement will be brought to surface to isolate formations

The casing and cementing programs shall be conducted as approved to protect and/or isolate all usable water zones and any prospectively valuable deposits of minerals. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.

3. MINIMUM BOP REQUIREMENTS: (Refer to attached schematics)

- a) The BOPE shall be closed whenever the well is unattended.
- b) The BOPE shall be pressure tested when initially installed, whenever any seal subject to pressure testing is broken, after repairs, or every 30 days.
- c) Kerr-McGee shall notify the UDOGM-Price office 24 hours prior to the BOPE test.
- d) All BOPE shall meet or exceed the requirements of a **2M** system as set forth in Onshore Order No. 2.
- e) An accumulator unit will be used that has sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer and retain 200 psi above precharge or the closing manifold without the use of the closing pumps. The accumulator unit will be located at the master accumulator and on the rig floor. Hydraulic controls will be located at the master accumulator and on the rig floor. Manual controls (hand wheels) will also be installed on the blind and pipe rams
- f) Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or 70 percent of internal yield pressure of casing if BOP stack is not isolated from casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer.
- g) Annular type preventers shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.
- h) Accessories to BOP's include upper and lower Kelly cock valves with handles and floor safety valve, drill string BOP.

4. SUPPLEMENTARY INFORMATION:

The primary objective of this project is to drill, stimulate and produce coalbed methane gas from the coal seams of the Mesa Verde Group Formations.

Kerr-McGee proposes to test the coal formations.

Stimulation of the perforated coal seams will be done by hydraulic fracturing. Fresh water, gelled water, and/or foam fracturing techniques will be used.

Helper Plan of Development
Carbon County, Utah
OPERATOR: Anadarko Petroleum Corporation

5. CASING PROGRAM:

Hole Size	Casing Size	Weight	Grade	Joint	Depth Set	New/Used	Collapse	Burst	Tension
17 1/2"	13 3/8"	48	H-40	ST&C	0-35'	New	740	1730	322M
11"	8 5/8"	24	J-55	ST&C	0-225 to 375'	New	1370	2950	244M
7 7/8"	5 1/2"	15.5	J-55	ST&C	0-TD	New	4040	4810	202M

Surface Casing:

- a) $\text{Burst} = 0.052 * \text{MW} * \text{TVD}(\text{shoe})$
 $= 0.052 * 10.0 \text{ ppg} * 375'$
 $= 195 \text{ psi}$
 $\text{Safety Factor} = \text{Rating/Burst}$
 $= 2950/195$
 $= 15.1$
- b) $\text{Collapse} = [0.052 * \text{MW} * \text{TVD}(\text{shoe})] - [\text{Gas Gradient} * \text{TVD}]$
 $= [0.052 * 10.0 \text{ ppg} * 375'] - [0.1 * 375']$
 $= 158 \text{ psi}$
 $\text{Safety Factor} = \text{Rating/Collapse}$
 $= 1370/158$
 $= 8.7$
- c) $\text{Tension} = \text{Weight} * \text{TVD} * [1 - (\text{MW}/65.5 \text{ ppg})]$
 $= 24 * 375' * [1 - 10.0/65.5]$
 $= 7,626 \text{ lbs.}$
 $\text{Safety Factor} = \text{Rating/Tension}$
 $= 244,000/7,626$
 $= 32$

Surface casing shall have centralizers on the bottom 3 joints of the casing, starting with the shoe joint (minimum of 4 centralizers.)

Production Casing:

- a) $\text{Burst} = 0.052 * 13 \text{ ppg} * 3345'$
 $= 2261 \text{ psi}$
 $\text{Safety Factor} = \text{Rating/Burst}$
 $= 4810/2261$
 $= 2.1$
- b) $\text{Collapse} = [0.052 * 13 \text{ ppg} * 3345' - [0.1 \text{ psi/ft} * 3345']]$
 $= 1927 \text{ psi}$
 $\text{Safety Factor} = \text{Rating/Collapse}$
 $= 2950/1927$
 $= 1.5$
- c) $\text{Tension Weight} = 15.5 \text{ lbs/ft} * 3345' * [1 - (13 \text{ ppg}/65.5 \text{ ppg})]$
 $= 41,557 \text{ lbs}$
 $\text{Safety Factor} = \text{Rating/Tension}$
 $= 202,000/41,557$
 $= 4.9$

6. MUD PROGRAM:

Kerr-McGee intends to drill the surface casing setting depth using air. Therefore, Kerr-McGee requests a variance from Onshore Order 2 in regards to the 100 foot blooie line. When drilling the surface hole no gas will be encountered and a BOP system will not be used. The length of the blooie line will be sufficient to reach the middle of the reserve pit. Since no gas will be encountered we will not have an ignition device. In the event that gas is encountered, then a continuous ignition system will be installed and utilized on remaining and subsequent wells drilled

Helper Plan of Development
Carbon County, Utah
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Air flow line is 6" Schedule 80 pipe that runs 90 degrees from the well bore to the reserve pit. The last 7' of flow line is 14" pipe with three, 45 degree, 8" Schedule 80 pipe to disperse cuttings to reserve pit. Dust suppression system is used by water injection to flow line. There is no gas ignition in place.

Location and capacity of equipment is located on site map provided and made an attachment to this plan. Kerr-McGee will use whip checks on all compressor equipment and hoses. There are several fire extinguishers placed on all equipment as well as up to date safety training and paper work.

While drilling with air, Kerr-McGee will maintain sufficient mud and weight materials to kill the water flow gas production if necessary. These materials will not be pre-mixed, but the ability to mix and pump will be at location.

Should water be used to drill through the surface casing setting depth, only fresh water will be used from a source listed in the MSUP.

Drilling of through production casing setting depth will be done with drilling mud as the circulation medium. A fresh water, polymer, gel drilling mud will be used and visual monitoring will be done upon mudding up to total depth. The anticipated mud weight will be between 8.5 - 13 ppg. Sufficient quantities of lost circulation material and barite will be available at the well site at all times for the purpose of assuring well control.

A mud test shall be performed at least once every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

7. CEMENTING PROGRAM:

The following is the proposed procedure for cementing the 8 5/8" surface pipe and 5 1/2" long string.

8 5/8" Surface Casing:

Lead: Type III Cement with 0.25#/sk celloflake and 2% CaCl₂, mixed at 15.8 ppg, 1.15 cuft/sk yield with 100% excess.

The surface casing shall be cemented back to surface. In the event cement does not circulate to surface or fall back of the cement column occurs, remedial cementing shall be done to cement the casing back to surface.

5 1/2" Production Casing:

Lead: Type III Cement with 2% CaCl₂, 0.2% CFR, 0.3% CFL-3 and .5#/sk cello-flake, mixed at 12.5 ppg, 2.04 cuft/sk yield.

Tail: Type III with 2% CaCl₂, 0.2% CFR, 0.3% CFL-3 and .5#/sk cello-flake, mixed at 15.8 ppg, 1.15 cuft/sk yield.

Volumes calculated to circulate cement from TD to surface.

8. LOGGING PROGRAM

Well completion and stimulation procedures will be determined following the evaluation of the drilling results and open hole logs. A Sundry Notice will be submitted for approval outlining the planned completion procedure at that time.

Cores: None

DSTs: None

Logs:		<u>From</u>	<u>To</u>
	GR	TD	Surface
	Resistivity	TD	Surface Casing
	Neutron-Density-Cal	TD	Surface Casing
	High Res Pass	TBD	TBD

Helper Plan of Development
Carbon County, Utah
OPERATOR: Anadarko Petroleum Corporation

9. PRESSURE DATA, POTENTIAL HAZARDS

Bottom hole pressures anticipated at 800-1000 psi
There is no history of hydrogen sulfide gas in the area and none is anticipated.

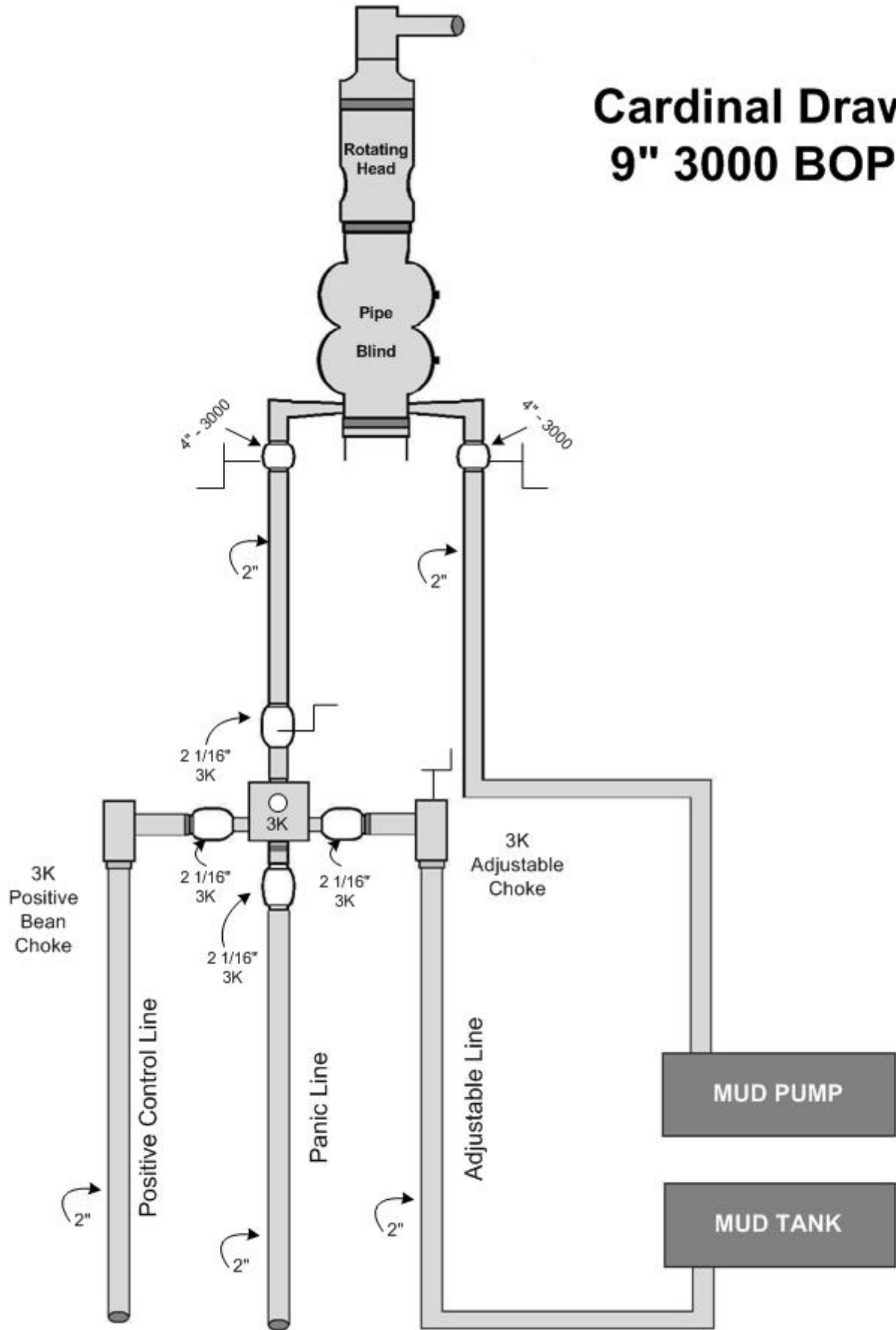
10. ANTICIPATED STARTING DATES AND NOTIFICATION OF OPERATIONS

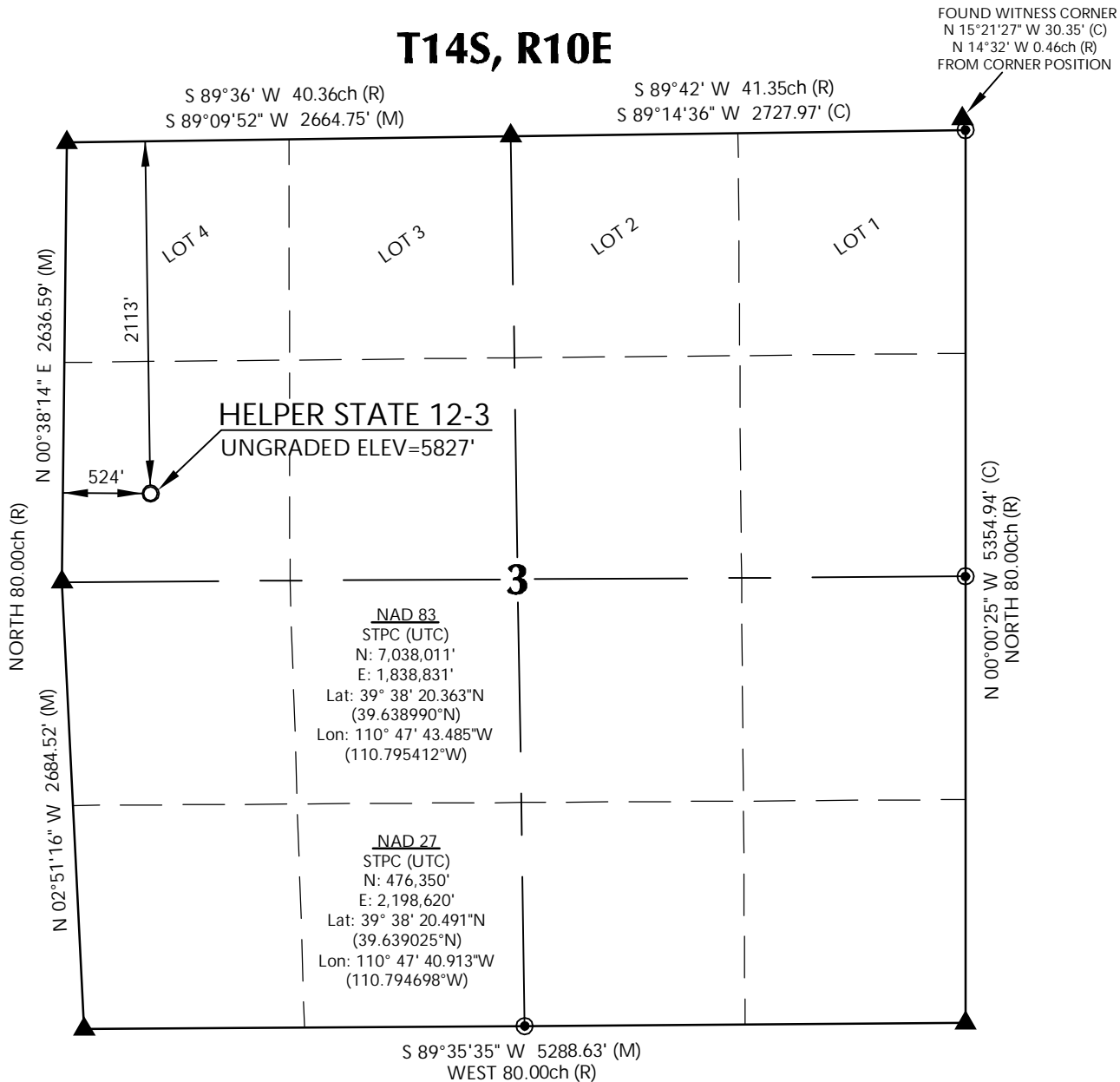
- a) Anticipated Days:
- | | |
|------------------|------------------------------|
| Drilling Days: | Approximately 4 Days/Well |
| Completion Days: | Approximately 2 Days/Well |
| Testing Days: | Approximately 7-14 Days/Well |
- b) Notification of Operations:
- | | |
|---------------------------------------|---------------------------------------|
| Main Address: | Mailing Address: |
| Utah Division of Oil, Gas, and Mining | Utah Division of Oil, Gas, and Mining |
| 1594 West North Temple, Suite 1210 | PO Box 145801 |
| Salt Lake City, UT 84116 | Salt Lake City, UT 84114-5801 |
| Main: 801-538-5340 | |
| Fax: 801-359-3940 | |

Helper Plan of Development
Carbon County, Utah
OPERATOR: Anadarko Petroleum Corporation

<u>PROPOSED WELL</u>	<u>8-5/8", 24# CASING</u>		<u>5-1/2", 15.5# CASING</u>		<u>Top of Cement</u>	<u>Top of Tail</u>	<u>Cement (sacks)</u>	
	<u>SETTING DEPTH-KB</u>	<u>Cement (Sacks)</u>	<u>SETTING DEPTH-KB</u>	<u>Ferron Depth</u>			<u>Production Lead</u>	<u>Production Tail</u>
1 Helper State 12-3	231'	102	2,312'	2,012'	1,612'	1,912'	317	66
2 Helper State 32-3	251'	111	2,506'	2,206'	1,806'	2,106'	349	66
3 Helper State 32-36	322'	142	3,215'	2,915'	2,515'	2,815'	467	66
4 Helper State 33-4	258'	114	2,579'	2,279'	1,879'	2,179'	361	66
5 Helper State 43-2	214'	94	2,136'	1,836'	1,436'	1,736'	288	66
6 Vea 32-32	323'	143	3,225'	2,925'	2,525'	2,825'	468	66

Cardinal Draw 9" 3000 BOP

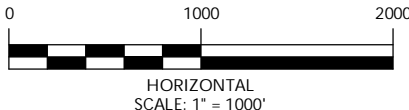




CERTIFICATE OF SURVEYOR:

THIS IS TO CERTIFY THAT THE SURVEY WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Benjamin Jay Reenders
BENJAMIN JAY REENDERS
PROFESSIONAL LAND SURVEYOR
No. 7263818
REGISTERED LAND SURVEYOR
REGISTRATION No. 7263818
STATE OF UTAH



NOTES:

- ▲ INDICATES FOUND BLM BRASS CAP
- INDICATES CALCULATED CORNER POSITION FROM RECORD
- ELEVATION BASED ON NAVD88 (GEOID09)
- BASIS OF BEARING DERIVED FROM NAD83
- ALL MEASURED DISTANCES ARE GRID. COMBINED SCALE FACTOR: .99960008
- 1 CHAIN = 66 FEET

WELL PAD - HELPER STATE 12-3

HELPER STATE 12-3
WELL PLAT
2113' FNL & 524' FWL
SW1/4 NW1/4, SECTION 3
T14S, R10E, S.L.M.
CARBON COUNTY, UTAH

Anadarko E&P Co., L.P.
an

Anadarko
Petroleum Corporation
1099 18th Street
Denver, CO 80202

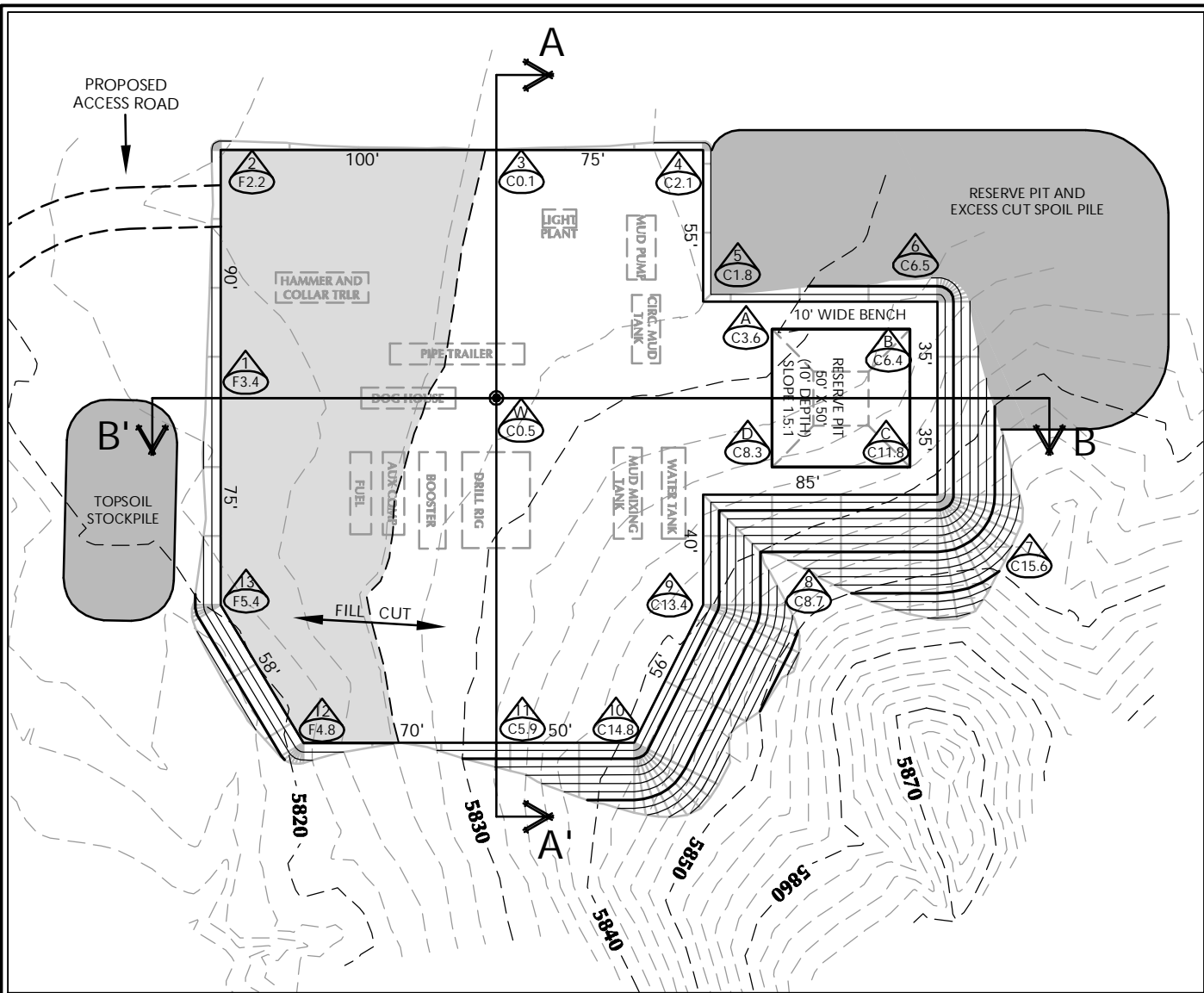


CONSULTING, LLC

2155 North Main Street
Sheridan Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

DRAFTED BY: SEA	CHECKED BY: BJR	SHEET NO: 1 1 OF 12
DATE DRAFTED: 8/2010	DATE SURVEYED: 7/2010	
REVISED: 8/2010	FILE NAME: 10-44	

'APIWellID:43007500700000'
K:\ANADARKO\2010_14_Helper_State_Wells\DWG\HELPER STATE 12-3\HELPER 12-3_20100811.dwg, 8/30/2010 1:47:11 PM



WELL PAD LEGEND	
	WELL LOCATION
	EXISTING CONTOURS (2' INTERVAL)
	PROPOSED CONTOURS (2' INTERVAL)

HELPER STATE 12-3 DESIGN SUMMARY

EXISTING GRADE @ LOC. STAKE = 5826.7'
FINISHED GRADE ELEVATION = 5826.2'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL DISTURBANCE = 1.25 ACRES
SHRINKAGE FACTOR = 1.15
SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 5,917 C.Y.
TOTAL FILL FOR WELL PAD = 1,605 C.Y.
TOPSOIL @ 6" DEPTH = 1,007 C.Y.
EXCESS MATERIAL = 4,312 C.Y.

RESERVE PIT QUANTITIES

TOTAL PIT CAPACITY WITH 2' OF FREEBOARD
+/- 1,540 BARRELS
TOTAL PIT VOLUME
+/- 480 CY

Anadarko E&P Co., L.P.
1099 18th Street - Denver, Colorado 80202



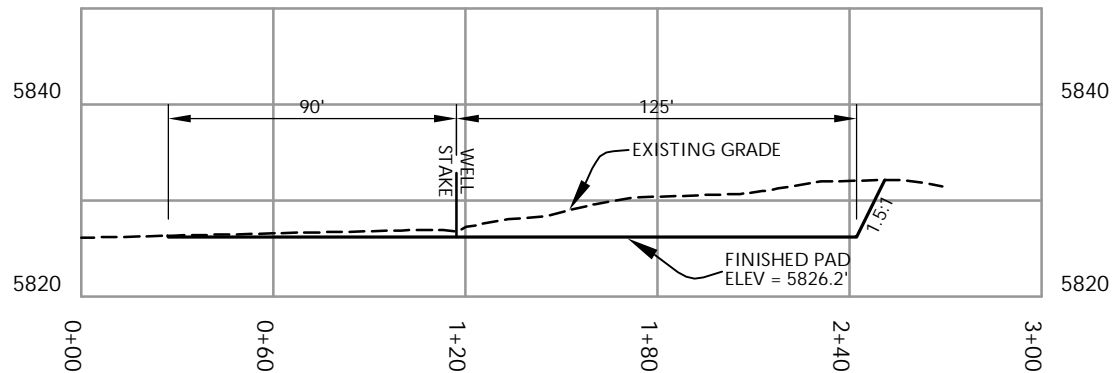
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Fax 307-674-0182



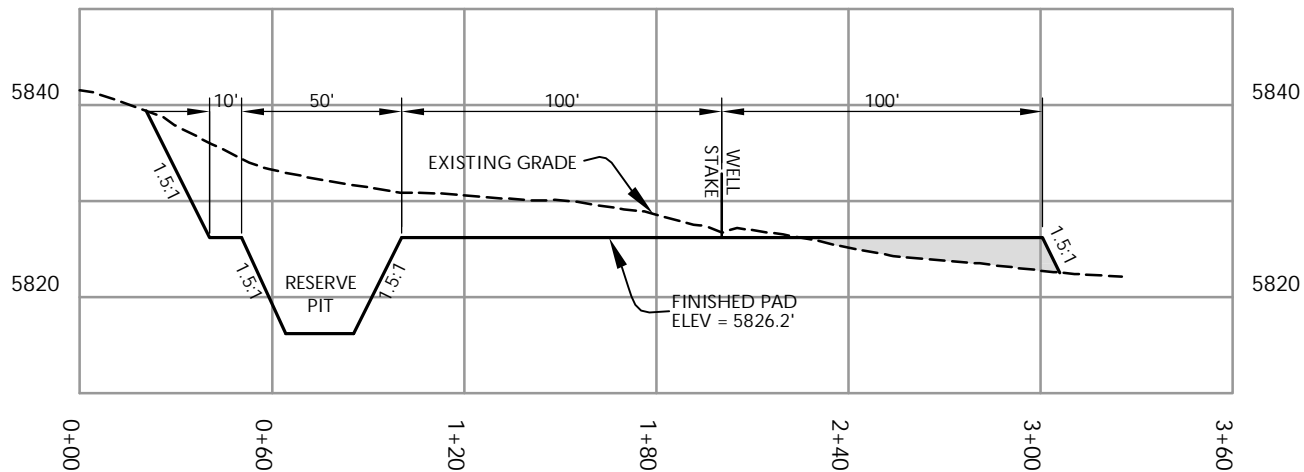
HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

HELPER STATE 12-3
WELL PAD - LOCATION LAYOUT
2113' FNL, 524' FWL
SW1/4 NW1/4, SECTION 3, T14S, R10E,
S.L.M., CARBON COUNTY, UTAH

Scale: 1"=60'	Date: 8/6/10	SHEET NO:
REVISED:	RAW 8/30/10	2 2 OF 12



CROSS SECTION A-A'



CROSS SECTION B-B'

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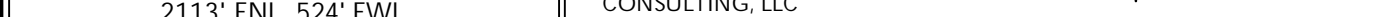
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Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

HORIZONTAL 0 30 60 1" = 60'
VERTICAL 0 10 20 1" = 20'

HELPER STATE 12-3
WELL PAD - CROSS SECTIONS
2113' FNL, 524' FWL
SW1/4 NW1/4, SECTION 3, T14S, R10E,
S.L.M., CARBON COUNTY, UTAH

Scale: 1"=60'	Date: 8/6/10	SHEET NO:
REVISED:	SEA 8/11/10	3 3 OF 12

'APIWellNo:43007500700000'

[illegible]

Phone 307.674.0609

[illegible]



PHOTOGRAPH OF HELPER STATE 12-3 WELL LOCATION - CAMERA ANGLE NORTH



PHOTOGRAPH OF HELPER STATE 12-3 WELL LOCATION - CAMERA ANGLE EAST

Anadarko E&P Co., L.P.
1099 18th Street - Denver, Colorado 80202

LOCATION PHOTOGRAPHS
HELPER STATE 12-3
2113' FNL, 524' FWL
SW1/4 NW1/4, SECTION 3, T14S, R10E,
S.L.M., CARBON COUNTY, UTAH



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Scale:	NTS	Date:	8/4/10	SHEET NO:
REVISED:	SEA 8/11/10			5 5 OF 12



PHOTOGRAPH OF HELPER STATE 12-3 WELL LOCATION - CAMERA ANGLE SOUTH



PHOTOGRAPH OF HELPER STATE 12-3 WELL LOCATION - CAMERA ANGLE WEST

Anadarko E&P Co., L.P.
1099 18th Street - Denver, Colorado 80202

LOCATION PHOTOGRAPHS
HELPER STATE 12-3
2113' FNL, 524' FWL
SW1/4 NW1/4, SECTION 3, T14S, R10E,
S.L.M., CARBON COUNTY, UTAH



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Scale:	NTS	Date:	8/4/10	SHEET NO:
REVISED:	SEA 8/11/10			6 6 OF 12



PHOTOGRAPH OF PROPOSED ACCESS TO THE HELPER STATE 12-3 WELL LOCATION - CAMERA ANGLE NORTH

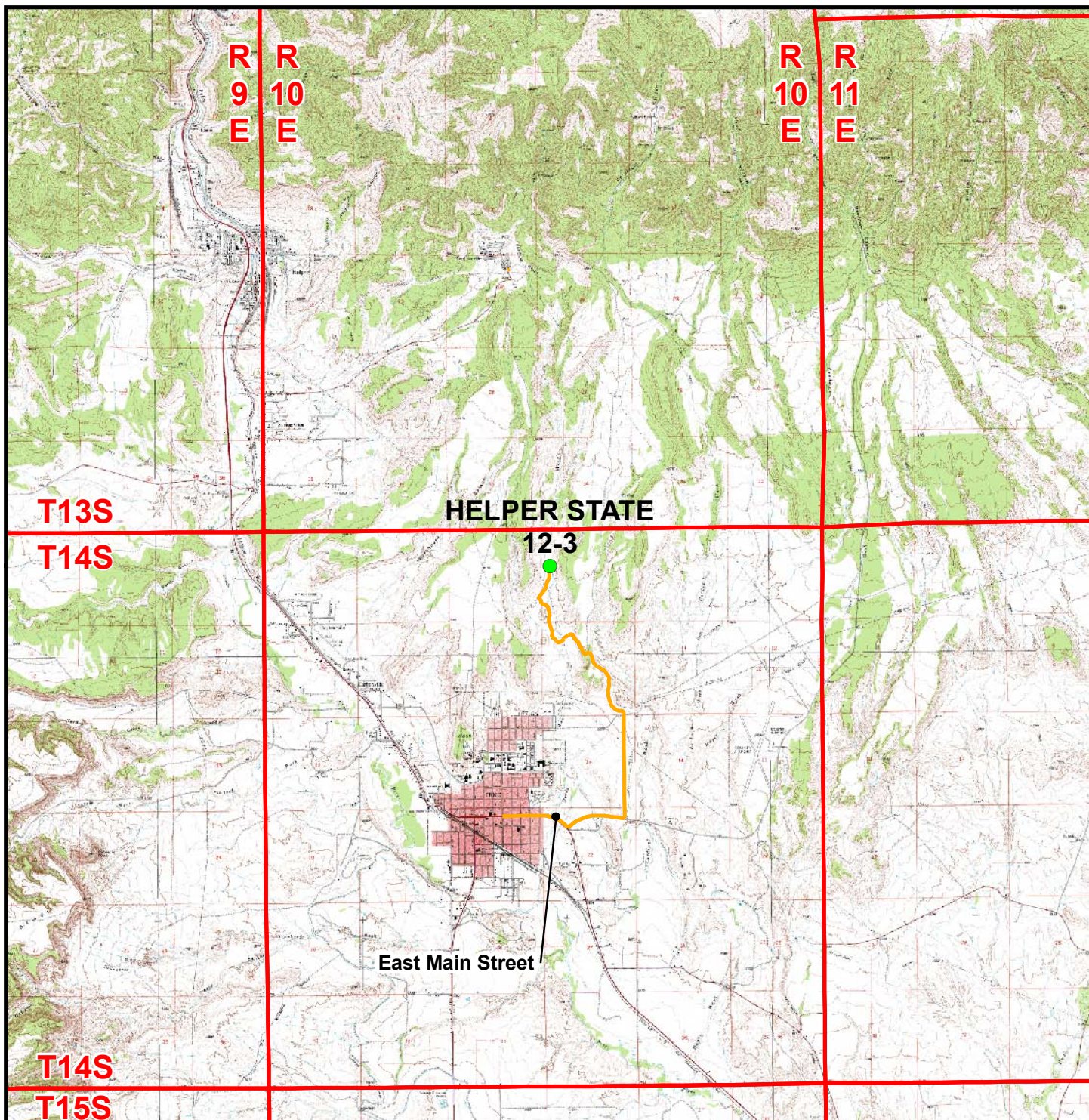
Anadarko E&P Co., L.P.
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LOCATION PHOTOGRAPHS
HELPER STATE 12-3
2113' FNL, 524' FWL
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S.L.M., CARBON COUNTY, UTAH



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Scale:	NTS	Date:	8/4/10	SHEET NO:
REVISED:	SEA 8/11/10			7 7 OF 12



Legend

- Proposed Helper State 12-3 Well Location
- Access Route - Proposed

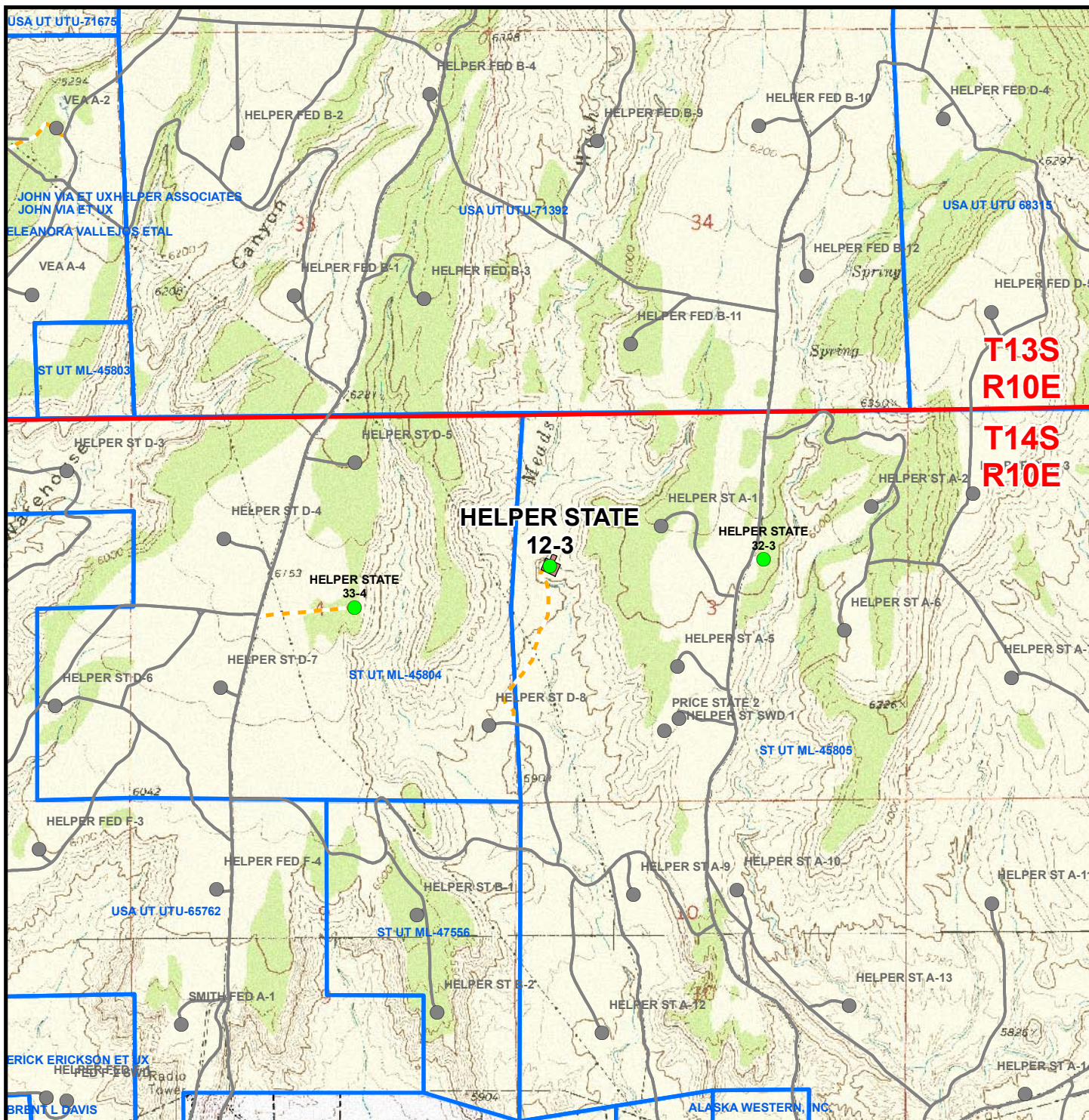
ANADARKO E&P Co., L.P.
1099 18th Street, Denver, Colorado 80202

HELPER STATE 12-3
TOPO A
2113' FNL, 524' FWL
SW¼ NW¼, SECTION 3, T14S, R10E
S.L.M., CARBON COUNTY, UTAH


609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 6 Aug 2010	8
Revised: KGS	Date: 31 Aug 2010	8 of 12



Legend

- Well - Proposed
- Well Pad
- Road - Proposed
- APC Lease
- Well - Existing
- Road - Existing

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1099 18th Street, Denver, Colorado 80202

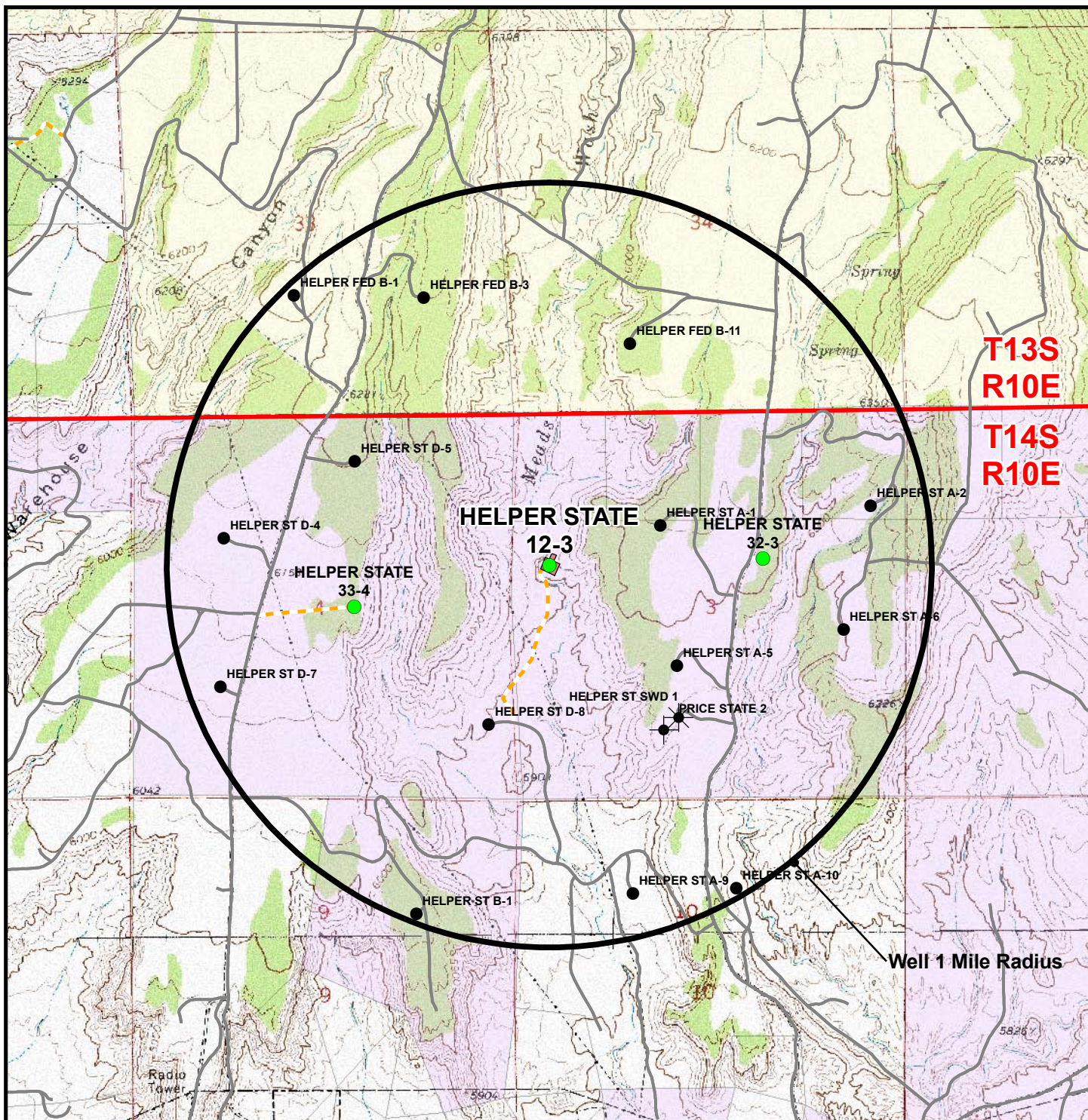
HELPER STATE 12-3
TOPO B
2113' FNL, 524' FWL
SW¼ NW¼, SECTION 3, T14S, R10E
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Fax (307) 674-0182



Scale: 1" = 2,000ft
NAD83 USP Central
Drawn: JELo
Revised: KGS

Sheet No:
9
9 of 12



Legend

- | | | | | |
|---|--|---|---|---|
| ● Well - Proposed | Well Pad | --- Road - Proposed | Private Surface Ownership | State of Utah Surface Ownership |
| Well - 1 Mile Radius | --- Road - Existing | BLM Surface Ownership | Carbon County Surface Ownership | |
| | ● Producing | ● Temporarily-Abandoned | | |
| | ✱ Active | ● Shut-In | | |
| | ⊕ Inactive | ✱ Plugged and Abandoned | | |

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HELPER STATE 12-3
TOPO C
2113' FNL, 524' FWL
SW¼ NW¼, SECTION 3, T14S, R10E
S.L.M., CARBON COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft NAD83 USP Central
Drawn: JELo Date: 6 Aug 2010
Revised: KGS Date: 31 Aug 2010

Sheet No:
10 10 of 12

T13S
R10E

T14S
R10E

● Well - Proposed Well Pad — Pipeline - Existing - - - Road - Proposed
● Well - Existing - - - Pipeline - Proposed — Road - Existing

Total Proposed Road Length: ±2,410ft
Total Proposed Gas Pipeline Length From Edge of Pad to Tie-In Point: ±1,560ft
Total Proposed Liquid Pipeline Length From Edge of Pad to Tie-In Point: ±2,410ft
Gas & Liquid Pipeline Length From Edge of Pad to Gas Production Facility: ±170ft

**HELPER STATE 12-3
TOPO D
2113' FNL, 524' FWL
SW¹/₄ NW¹/₄, SECTION 3, T14S, R10E
S.L.M., CARBON COUNTY, UTAH**



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
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Scale: 1" = 2,000ft	NAD83 USP Central
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Sheet No:

11 11 of 12

ANADARKO E&P CO., LP
HELPER STATE 12-3
SECTION 3, T14S, R10E, S.L.M.

Proceed in an easterly direction from Price, Utah, along East Main Street approximately 0.7 miles to the junction of East Main Street and Airport Road. Exit left and proceed in an easterly direction along Airport Road approximately 0.7 miles to the junction of Airport Road and Gas Lane Road. Exit left and proceed along Gas Lane Road, continuing on Price-Kenilworth Road, in a northerly, then northwesterly direction approximately 2.0 miles to the junction of Price-Kenilworth Road and an existing road to the west. Exit left and proceed along the existing road in a westerly, then northwesterly direction approximately 0.5 miles to the junction of this road and a second existing road to the north. Exit right and proceed along the second existing road in a northerly, then westerly direction approximately 0.5 miles to the proposed access road to the north. Exit right and follow the road flags in a northerly, then northeasterly direction approximately 2,410 feet to the proposed Helper State 12-3 well location.

Total distance from Price, Utah, to the proposed Helper State 12-3 well location is approximately 4.9 miles.

SURFACE USE PLAN of OPERATIONS (SUPO)

Helper Field: Six (6) In-fill Wells

**Carbon County, Utah
Anadarko Petroleum Corporation**

Helper State 12-3

Section 3 T14S R10E
2113' FNL 524' FWL (SW/4 NW/4)
State Surface
State Minerals: ST UT ML-45805

Helper State 32-3

Section 3 T14S R10E
2066' FNL 1947' FEL (SW/4 NE/4)
State Surface
State Minerals: ST UT ML-45805

Helper State 32-36

Section 36 T13S R10E
2142' FNL 2345' FEL (SW/4 NE/4)
State Surface
State Minerals: ST UT ML-45802

Helper State 33-4

Section 4 T14S R10E
2601' FSL 2162' FEL (NW/4 SE/4)
State Surface
State Minerals: ST UT ML-45804

Helper State 43-2

Section 2 T14S R10E
1506' FNL 480' FEL (NE/4 SE/4)
State Surface
State Minerals: ST UT ML-45805

Vea 32-32

Section 32 T13S R10E
1798' FNL 1886' FEL (SW/4 NE/4)
Fee Surface: Vea
Fee Minerals: Anadarko Petroleum Corporation

This Surface Use Plan of Operations (SUPO) contains surface operating procedures for Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible.

Helper Field: Six (6) In-fill wells**Surface Use Plan of Operations****Page 2****B. Planned Access Roads:**

New access roads to these well locations are summarized below in Table 1, and shown in each well's Topo D map. Applicable Carbon County encroachment and/or pipeline crossing permits will be obtained prior to construction/development, if needed.

Table 1
New Access Road Details

Well Name	New Access Road Length	Section/Township/Range		Surface Owner
		Starting	Ending (at well pad)	
Helper State 12-3	±2410'	4-T14S-R10E	3-T14S-R10E	State of Utah
Helper State 32-3	±200'	3-T14S-R10E	3-T14S-R10E	State of Utah
Helper State 32-36	±4810'	36-T13S-R10E	36-T13S-R10E	State of Utah
Helper State 33-4	±1400'	4-T14S-R10E	4-T14S-R10E	State of Utah
Helper State 43-2	±310'	2-T14S-R10E	2-T14S-R10E	State of Utah
Vea 32-32 ¹	±1600'	32-T13S-R10E	32-T13S-R10E	Vea

¹ The well pad and access road on Vea surface will be handled under a separate Surface Use Agreement (SUA) with the private surface owner.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, APC will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers (COE).

The running surface will be crowned/ditched with a running surface of ±16' and the total disturbance width of 45'. The temporary construction width is 75'. Plans for improvement and/or maintenance of existing roads are to maintain in as good or better conditions than at present. A regular maintenance plan will include, but not be limited to, blading, ditching, and surfacing.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

Gathering Facilities/Utility Trenches:

The following pipeline information will apply if the wells are productive (see Topo D). There will be a gas pipeline and a water transmission pipeline in the same trench. Additionally, electrical power will be buried in a separate, but adjacent, trench with appropriate safety measures in place. The trenches for the pipelines will follow the access road whenever possible. All trenches will be within the corridor as surveyed by the archaeologist.

Helper Field: Six (6) In-fill wells**Surface Use Plan of Operations****Page 3**

Each gathering pipeline will have the following specifications:

	Gas Gathering	Water Gathering
Diameter:	4" – 6"	4" – 6"
Type:	SDR 11	SDR 9
Material:	poly HDPE 4710	poly HDPE 4710
Buried depth:	4'	4'
Design pressure:	100 psi	200 psi
Test pressures:	120 psi	120 psi
Test material:	Air	Air

Table 2
New Gas Gathering Pipeline Details

Well Name	Gas Gathering Pipeline Length	Section/Township/Range		Surface Owner
		Starting	Ending (at well pad)	
Helper State 12-3	±1730'	4-T14S-R10E	3-T14S-R10E	State of Utah
Helper State 32-3	±190'	3-T14S-R10E	3-T14S-R10E	State of Utah
Helper State 32-36	±2140'	36-T13S-R10E	36-T13S-R10E	State of Utah
Helper State 33-4	±1420'	4-T14S-R10E	4-T14S-R10E	State of Utah
Helper State 43-2	±450'	2-T14S-R10E	2-T14S-R10E	State of Utah
Vea 32-32 ¹	±1620'	32-T13S-R10E	32-T13S-R10E	Vea

¹ The well pad and access road on Vea surface will be handled under a separate Surface Use Agreement (SUA) with the private surface owner.

Table 3
New Liquids Gathering Pipeline Details

Well Name	Liquids Gathering Pipeline Length	Section/Township/Range		Surface Owner
		Starting	Ending (at well pad)	
Helper State 12-3	±2580'	4-T14S-R10E	3-T14S-R10E	State of Utah
Helper State 32-3	±190'	3-T14S-R10E	3-T14S-R10E	State of Utah
Helper State 32-36	±2140'	36-T13S-R10E	36-T13S-R10E	State of Utah
Helper State 33-4	±1420'	4-T14S-R10E	4-T14S-R10E	State of Utah
Helper State 43-2	±450'	2-T14S-R10E	2-T14S-R10E	State of Utah
Vea 32-32 ¹	±1620'	32-T13S-R10E	32-T13S-R10E	Vea

¹ The well pad and access road on Vea surface will be handled under a separate Surface Use Agreement (SUA) with the private surface owner.

The proposed pipelines will be buried and will include separate lines for gas gathering and liquid gathering in one trench, and electrical lines in an adjacent, separate trench. Where the utility trench is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. APC requests a permanent 45' right-of-way (ROW) adjacent to the road for the life of the project for maintenance, repairs, and/or upgrades. For construction purposes, APC requests a temporary 75' ROW. Where the pipeline is not adjacent to the road or well pad, APC requests a temporary 45' construction ROW and 30' permanent ROW.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and T's, will be installed at various locations for connection, corrosion prevention and/or for safety purposes. Trace wires follow the poly lines.

D. Location and Type of Water Supply:

Water use for drilling and completion purposes will be minimal as these wells will be air drilled. When water is needed, it will be obtained from the city of Price

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well.

Drill cuttings and/or fluids will be contained in the reserve pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should

petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve pit will be lined with a synthetic material 20-mil or thicker, The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed the next full summer after completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced and covered to prevent wildlife or livestock entry. The fence to be used is 45" net fence.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

Well Name
Helper State 12-3

Helper State 32-3
Helper State 32-36
Helper State 33-4

Helper Field: Six (6) In-fill wells

Surface Use Plan of Operations

Page 8

Helper State 43-2

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

(801) 538-5100

John Vea
799 W 4000 North
Helper, UT 84526-2295

435-472-3129

Well Name

Vea 32-32

K. Other Information:

A Class I literature report was completed in August 2010 by SWCA. For additional details please refer to report 16853, SWCA report number 2010-342, and Utah State project number: U-10-ST-00505ps.

A paleontological reconnaissance survey, if needed, will be conducted by SWCA, and a report will be provided under separate cover.

L. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan
Staff Regulatory Analyst
Anadarko Petroleum Corporation
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

Tommy Thompson
General Manager, Drilling
Anadarko Petroleum Corporation
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable state and Federal laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Anadarko Petroleum Corporation is considered to be the operator of the subject well. Anadarko Petroleum Corporation agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Kathy Schneebeck Dulnoan

Kathy Schneebeck Dulnoan

August 24, 2010

Date

API Number: 4300750070

Well Name: Helper State 12-3

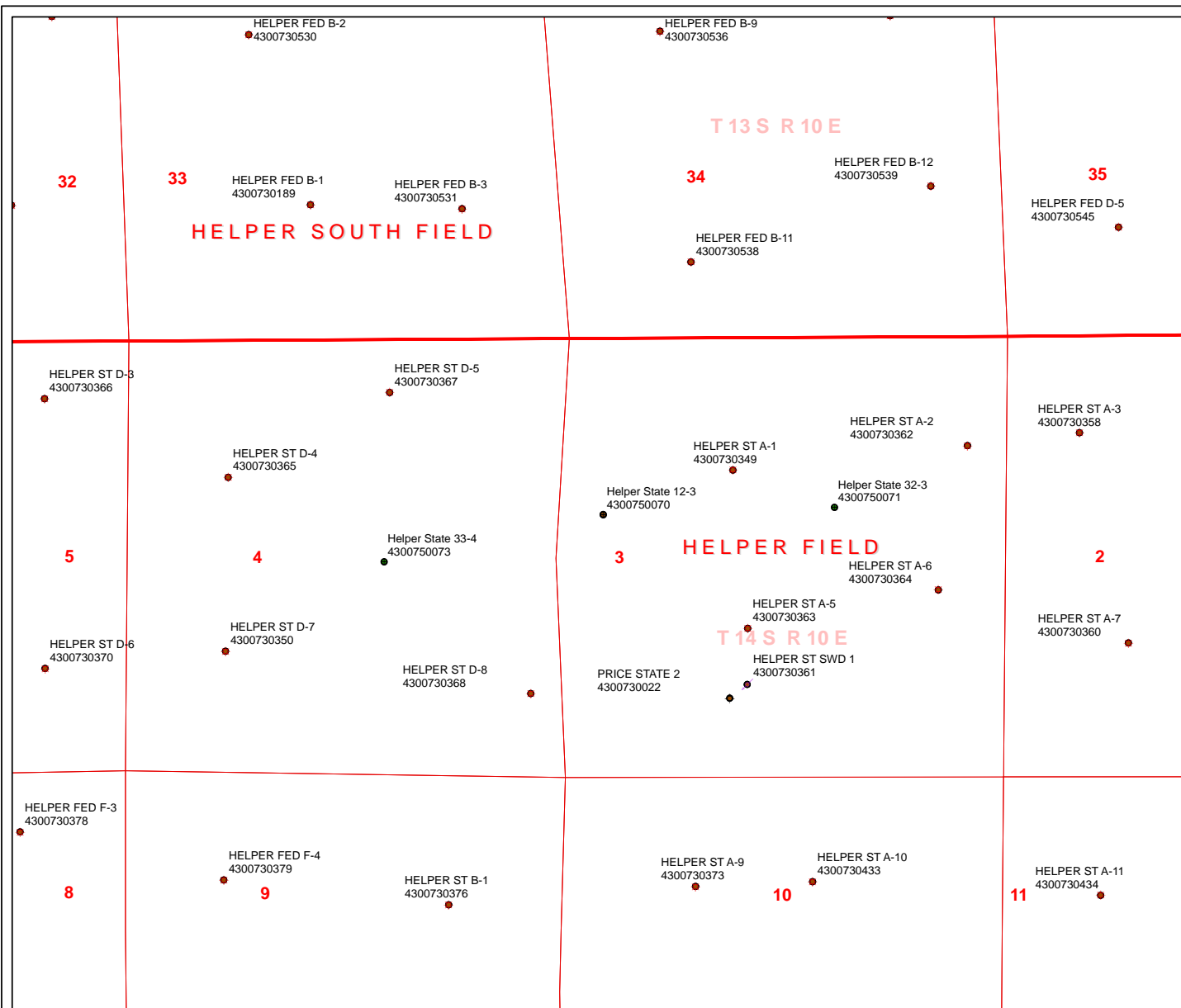
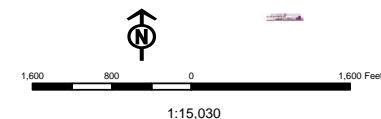
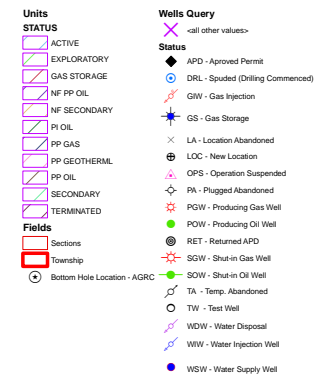
Township 14.0 S Range 10.0 E Section 03

Meridian: SLBM

Operator: ANADARKO PETROLEUM CORP

Map Prepared:

Map Produced by Diana Mason





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Utah Division of Water Rights



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From: Jim Davis
To: Bonner, Ed; Mason, Diana
CC: Garrison, LaVonne; kathy.schneebeckdulnoan@anadarko.com
Date: 9/15/2010 9:09 AM
Subject: Anadarko Helper St well approvals

The following APDs have been approved by SITLA including arch clearance. The proposed wells are outside the paleo sensitive area, therefore paleo clearance was not required.

Anadarko's Helper State 43-2 [API #4300750074]

Anadarko's Helper State 33-4 [API #4300750073]

Anadarko's Helper State 32-36 [API #4300750072]

Anadarko's Helper State 32-3 [API #4300750071]

Anadarko's Helper State 12-3 [API #4300750070]

-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	ANADARKO PETROLEUM CORP Helper State 12-3 43007500700000			
String	Surf	Prod		
Casing Size(in)	8.625	5.500		
Setting Depth (TVD)	261	2312		
Previous Shoe Setting Depth (TVD)	35	261		
Max Mud Weight (ppg)	8.3	13.0		
BOPE Proposed (psi)	500	3000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	1000	8.3		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	113	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	82	YES <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	56	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	63	NO <input type="text" value="OK"/>
Required Casing/BOPE Test Pressure=		261	psi
*Max Pressure Allowed @ Previous Casing Shoe=		35	psi *Assumes 1psi/ft frac gradient

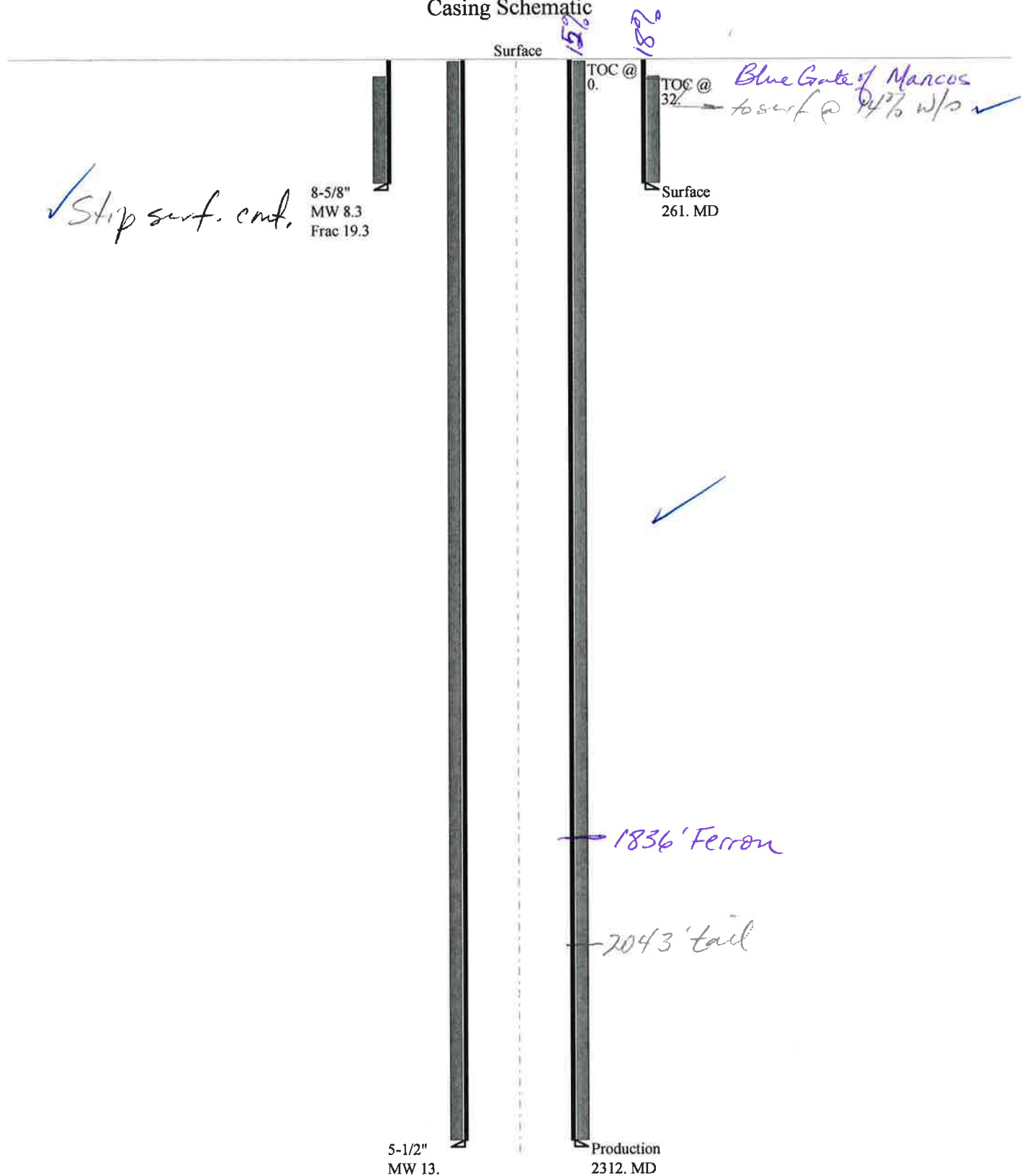
Calculations	Prod String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	1563	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1286	YES <input type="text" value=""/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1054	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1112	NO <input type="text" value="Reasonable for area"/>
Required Casing/BOPE Test Pressure=		2312	psi
*Max Pressure Allowed @ Previous Casing Shoe=		261	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="text" value=""/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="text" value=""/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="text" value=""/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="text" value=""/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="text" value=""/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="text" value=""/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43007500700000 Helper State 12-3

Casing Schematic



Well name:	43007500700000 Helper State 12-3		
Operator:	ANADARKO PETROLEUM CORP		
String type:	Surface	Project ID:	43-007-50070
Location:	CARBON	COUNTY	

Design parameters:

Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 78 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 32 ft

Burst

Max anticipated surface pressure: 230 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 261 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 228 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 2,312 ft
Next mud weight: 13.000 ppg
Next setting BHP: 1,561 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 261 ft
Injection pressure: 261 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	261	8.625	24.00	J-55	ST&C	261	261	7.972	1344
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	113	1370	12.130	261	2950	11.30	6.3	244	38.95 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: September 15, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 261 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43007500700000 Helper State 12-3		
Operator:	ANADARKO PETROLEUM CORP		
String type:	Production	Project ID:	43-007-50070
Location:	CARBON	COUNTY	

Design parameters:**Collapse**

Mud weight: 13.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 105 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 1,239 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,507 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 1,845 ft

Directional well information:

Kick-off point 0 ft
Departure at shoe: 519 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 19.99 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2312	5.5	15.50	J-55	ST&C	2231	2312	4.825	7691
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1507	4040	2.682	1507	4810	3.19	34.6	202	5.84 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: September 15, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2231 ft, a mud weight of 13 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator	ANADARKO PETROLEUM CORP				
Well Name	Helper State 12-3				
API Number	43007500700000	APD No	2984	Field/Unit	HELPER
Location: 1/4,1/4	SWNW	Sec	3	Tw	14.0S Rng 10.0E 2113 FNL 524 FWL
GPS Coord (UTM)	517619 4387507	Surface Owner			

Participants

M. Jones (UDOGM), K. Gathings, T. Kazeck, D. Holmer, J. Hartley (APC), M. Ritt, C. Kastrinko (609 Consulting), Nicole Nielson (UDWR).

Regional/Local Setting & Topography

North of Price, Utah. Proposed on the bank of a good sized drainage. Surrounding topography is hilly.

Surface Use Plan

Current Surface Use

Grazing
Recreational
Wildlife Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.47	Width 175 Length 215	Onsite	

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands Y

located on the bank of a good sized drainage. Location is high enough that it shouldn't be affected by high flows in the drainage.

Flora / Fauna

greasewood, Pinion/Juniper, sagebrush.

Soil Type and Characteristics

clay loam

Erosion Issues Y

Erosive upon disturbance.

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? Y

Diversion of drainages around location.

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N

Reserve Pit**Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	>200	0	
Distance to Surface Water (feet)		20	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	Mod permeability	10	
Fluid Type	Air/mist	0	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)	10 to 20	5	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
Final Score		35	1 Sensitivity Level

Characteristics / Requirements

Dugout earthen (50x50x10) exterior to pad dimensions.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 12 Pit Underlayment Required? N

Other Observations / CommentsMark Jones
Evaluator8/26/2010
Date / Time

Application for Permit to Drill

Statement of Basis

9/27/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2984	43007500700000	LOCKED	GW	S	Yes
Operator	ANADARKO PETROLEUM CORP		Surface Owner-APD		
Well Name	Helper State 12-3		Unit		
Field	HELPER		Type of Work		DRILL
Location	SWNW 3 14S 10E S 2113 FNL 524 FWL GPS Coord (UTM) 517625E 4387494N				

Geologic Statement of Basis

A well at this location will spud into a soil developed on the Upper Portion of the Blue Gate Member of the Mancos Shale. If present, the near-surface Garley Canyon Sandstone Member of the Mancos Shale may host a limited fresh water resource and should be afforded the protection of the surface casing and cementing program. The Garley Canyon Sandstone Member is likely to be absent at this location. This is the only aquifer sand likely to be encountered until the Ferron Sandstone Member of the Mancos Shale is penetrated. The proposed program should be adequate for the task. A benign air or fresh water/polymer/gel mud system will be used to drill the well. No subsurface water rights are on file within a mile of the proposed well location.

Chris Kierst
APD Evaluator

9/13/2010
Date / Time

Surface Statement of Basis

Present for pre-site were: M. Jones (UDOGM), K. Gathings, T. Kazeck, D. Holmer, J. Hartley (APC), M. Ritt, C. Kastrinko (609 Consulting), Nicole Nielson (UDWR).

This location is proposed on the bank of a nearby drainage. This drainage should not affect the stability of the pad. There will be a low water crossing to get across the drainage to the pad. DWR recommends big game winter restrictions from Dec. 1 to Apr. 15 and raptor restrictions from Jan. 1 to Aug. 31.

The pit ranking criteria ranks the location as "required" for a liner.

Access needs to be provided through or around pad to existing two-track on the west side of the pad.

Mark Jones
Onsite Evaluator

8/26/2010
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/25/2010

API NO. ASSIGNED: 43007500700000

WELL NAME: Helper State 12-3

OPERATOR: ANADARKO PETROLEUM CORP (N0035)

PHONE NUMBER: 720 929-6007

CONTACT: Kathy Schneebeck-Dulnoan

PROPOSED LOCATION: SWNW 03 140S 100E

Permit Tech Review: ☒

SURFACE: 2113 FNL 0524 FWL

Engineering Review: ☒

BOTTOM: 2113 FNL 0524 FWL

Geology Review: ☒

COUNTY: CARBON

LATITUDE: 39.63893

LONGITUDE: -110.79460

UTM SURF EASTINGS: 517625.00

NORTHINGS: 4387494.00

FIELD NAME: HELPER

LEASE TYPE: 3 - State

LEASE NUMBER: ST UT ML-45805

PROPOSED PRODUCING FORMATION(S): FERRON COAL

SURFACE OWNER: 3 - State

COALBED METHANE: YES

RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** STATE/FEE - 22013542
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** City of Price
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

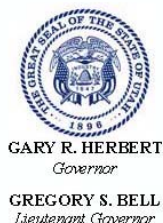
Commingleing Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:**
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 241-1A
- Effective Date:** 1/2/1998
- Siting:** 460' Fr Drl U Bdry & 920' Fr Other Wells
- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
25 - Surface Casing - hmadonald



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Helper State 12-3
API Well Number: 43007500700000
Lease Number: ST UT ML-45805
Surface Owner: STATE
Approval Date: 9/27/2010

Issued to:

ANADARKO PETROLEUM CORP, P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 241-1A. The expected producing formation or pool is the FERRON COAL Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Surface casing shall be cemented to the surface.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
- OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

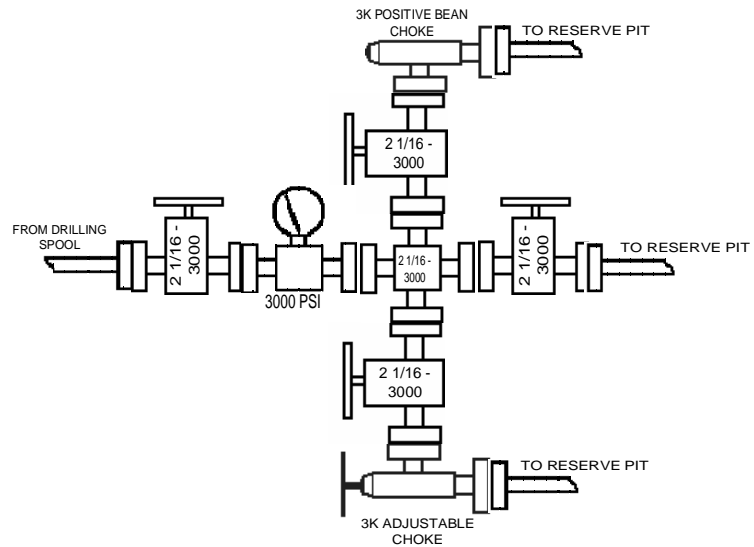
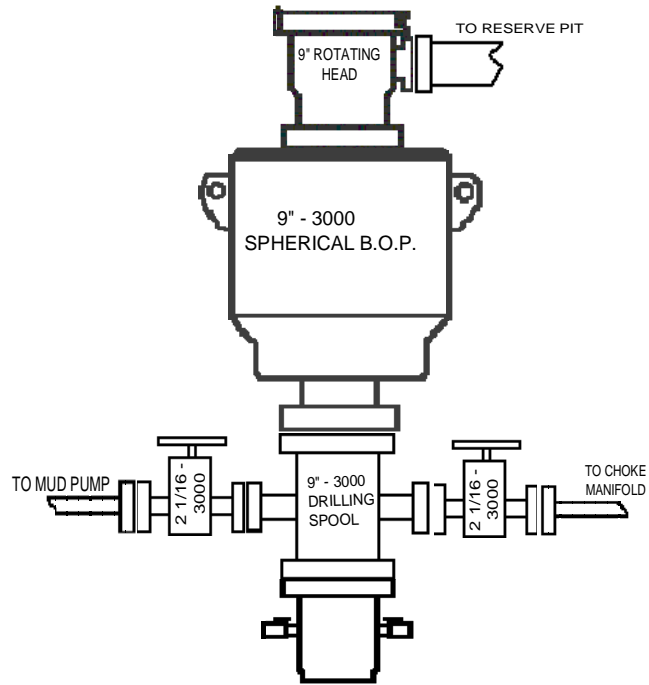


Acting Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ST UT ML-45805
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: ANADARKO PETROLEUM CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: Helper State 12-3
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2113 FNL 0524 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 03 Township: 14.0S Range: 10.0E Meridian: S		9. API NUMBER: 43007500700000
PHONE NUMBER: 307-752-1169 Ext		9. FIELD and POOL or WILDCAT: HELPER
COUNTY: CARBON		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/8/2010	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> PLUG BACK <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Change BOP"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:		
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Anadarko Petroleum Corporation (Anadarko) respectfully requests to change the BOP to be used to drill this well. The drilling rig secured requires a different BOP configuration than originally permitted; the substructure is too low to allow the standard 3000 psi double-valve BOP without hitting the rig floor. Based on historic data in Cardinal Draw and observed reservoir pressures, there are no over-pressured formations. All drilling is done with air/mist because the formations are underbalanced. This well coincides with the drilling program done in Cardinal Draw in June 2010 where Pense Drilling was the rig contractor; the same setup was used with BLM approval. The annular preventor can be fully closed in open hole conditions and tested to 1500 psi. Please see the attached for the revised BOP diagram. Please contact the undersigned with any questions and/or comments. Thank you.		
<div style="text-align: right;"> Approved by the Utah Division of Oil, Gas and Mining Date: <u>October 06, 2010</u> By: <u>[Signature]</u> </div>		
NAME (PLEASE PRINT) Kathy Schneebeck-Dulnoan	PHONE NUMBER 720 929-6007	TITLE Staff Regulatory Analyst
SIGNATURE N/A	DATE 10/4/2010	

CARDINAL DRAW

9" - 3000 BOP



DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: ANADARKO PETROLEUM CORPORATION

Well Name: HELPER STATE 12-3

Api No: 43-007-50070 Lease Type STATE

Section 03 Township 14S Range 10E County CARBON

Drilling Contractor PENSE DRILLING RIG # 19

SPUDDED:

Date 10/23/2010

Time NOON

How DRY

Drilling will Commence: _____

Reported by JAMES GOBER

Telephone # (435) 828-7024

Date 10/25/2010 Signed CHD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: ANADARKO PETROLEUM CORP
Kerr-McGee Oil & Gas Onshore LP
Address: P.O. Box 173779
city Denver
state CO zip 80217-3779
Operator Account Number: N-2995 ⁰⁰³⁵
Phone Number: (720) 929-6282

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4300750070	Helper State 12-3		SWNW	3	14S	10E	Carbon, UT
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17824	10/22/2010		10/28/10		
Comments: Well Spud 10/22/2010 @ 12:00 FRNCL = FRSD							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Emily Carrender

Name (Please Print)

Emily Carrender

Signature

Operation Specialist I

Title

10/25/2010

Date

RECEIVED

OCT 25 2010

(5/2000)

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ST UT ML-45805
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: HELPER STATE 12-3
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2113 FNL 0524 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 03 Township: 14.0S Range: 10.0E Meridian: S		9. API NUMBER: 43007500700000
PHONE NUMBER: 307-752-1169 Ext		9. FIELD and POOL or WILDCAT: HELPER
COUNTY: CARBON		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/16/2010	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER:	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The following well location has returned to production on 11/16/2010. First Gas Sales of 13 MCFd and First Water Sales of 218 BWPd. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Emily Carrender	PHONE NUMBER 720 929-6282	TITLE Operations Specialist I
SIGNATURE N/A	DATE 11/22/2010	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER _____

2. NAME OF OPERATOR:

ANADARKO PETROLEUM CORP

3. ADDRESS OF OPERATOR:

P.O. BOX 173779

CITY DENVER

STATE CO

ZIP 80217-3779

PHONE NUMBER:

(720) 929-6282

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

HELPER STATE 12-3

9. API NUMBER:

4300750070

10. FIELD AND POOL, OR WILDCAT:

HELPER

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2113 FNL 524 FWL

COUNTY: CARBON

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 3 14S 10E S

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will start:

☒ SUBSEQUENT REPORT
(Submit Original Form Only)

Date of work completion:

11/15/2010

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: COMPLETION

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ANADARKO RESPECTFULLY SUBMITS THE WELL COMPLETION INFORMATION FOR THE FOLLOWING WELL LOCATION. WELL COMPLETED ON NOVEMBER 15, 2010.

PLEASE FIND ATTACHED DRILLING OPERATION REPORTS. THANK YOU.

NAME (PLEASE PRINT) EMILY CARRENDER

TITLE OPERATION SPECIALIST I

SIGNATURE

Emily Carrender

DATE

6/2/2011

(This space for State use only)

RECEIVED

JUN 06 2011

US ROCKIES REGION
Operation Summary Report

Well: HELPER STATE 12-3		Spud Conductor: 10/22/2010		Spud Date: 10/22/2010	
Project: UTAH-CARBON		Site: HELPER STATE 12-3		Rig Name No: PENSE BROTHERS 18/18, PENSE BROTHERS 19/19	
Event: DRILLING		Start Date: 10/14/2010		End Date: 10/25/2010	
Active Datum: RKB @5,836.00ft (above Mean Sea Level)		UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/22/2010	3:00 - 7:00	4.00	RDMO	01	E	P		RIG DOWN RIG AND READY FOR TRUCKS.
	7:00 - 10:00	3.00	MIRU	01	A	P		MOVE RIG TO LOCATION, SPOT IN RIG W/ NELCO TRUCKING.
	10:00 - 12:00	2.00	MIRU	01	B	P		RIG UP RIG, RIG UP PUMP, P/U 13-5/8" TRICONE. HOLD PRESPUD SAFETY MEETING AND RIG INSPECTION.
	12:00 - 13:00	1.00	DRLCON	02	A	P		CONDUCTOR SPUD 10/22/2010 12:00. DRILL 13-5/8" HOLE WITH WATER DOWN TO 42'.
	13:00 - 13:30	0.50	CSG	12	C	P		RUN 13-3/8" CONDUCTOR PIPE AND SEAT.
	13:30 - 16:00	2.50	MIRU	14	A	P		RIG UP AIR BOWL, AND BLOWIE LINE, RIG UP AIR PACKAGE, P/U 11" AIR HAMMER.
	16:00 - 18:00	2.00	DRLSUR	02	A	P		SURFACE SPUD 10/22/2010 16:00 DRILL W/ 11" AIR HAMMER, 42'- 285'. (243', 122'/HR) ROT 45, 5K ON BIT. TD 10/22/2010 18:00.
	18:00 - 18:30	0.50	DRLSUR	06	A	P		BLOW HOLE CLEAN. TRIP OUT LD 11" AIR HAMMER
	18:30 - 19:30	1.00	CSG	12	C	P		RIG DOWN , BOWIE LINE AND AIR BOWL, HOLD SAFETY MEETING AND RUN 6 JTS OF 8-5/8"
								SURFACE CSG AND SET @ 267'KB, BAFFLE RAN IN TOP OF SHOE JT, SET @ 223' KB, CENTRALIZERS RAN FIRST 2 AND EVERY OTHER ONE. 4 TOTAL. LOAD HOLE WATER.
	19:30 - 23:00	3.50	CSG	12	E	P		HOLD SAFETY MEETING, RIG UP CEMENTERS, PSI TEST TO 2000 PSI, PUMP 15 BBLS OF H2O AHEAD, CATCH CIRC. PUMP 119 SX (24.2 BBLS) OF 15.8#, 1.15 YD 5 GAL/SK 2% CALC. DISPLACE W 12.9 BBLS OF H2O STOP 20' SHY OF BAFFLE. 3.5 BBLS OF CEMENT TO SURFACE. CEMENT FELL AFTER JOB. WAIT 1.5 HRS AND TOP OUT W/ 17 SX (3.4 BBLS) OF 15.8# 2% CALC. CEMENT. CEMENT TO SURFACE. MARK JONES WITH UTAH STATE PRESENT FOR CEMENT JOB.
	23:00 - 0:00	1.00	CSG	13	A	P		DIG OUT CELLAR, READY RIG TO CUT OFF CSG AND CEMENT WELL HEAD.
10/23/2010	0:00 - 1:30	1.50	CSG	13	A	P		WAIT ON CEMENT.
	1:30 - 3:30	2.00	CSG	14	A	P		CUT OFF CONDUCTOR, CUT OFF 9' , 8-5/8 CSG, WELD ON CSG HEAD. WELD ON BLOWIE LINE
	3:30 - 6:00	2.50	MIRU	14	A	P		SAFETY MEETING, NIPPLE UP STACK, NIPPLE UP CHOKE LINE AND MANIFOLD, NIPPLE UP BLOWIE LINE.
	6:00 - 9:00	3.00	MIRU	15	A	P		SAFETY MEETING, TEST ANNULAR, CHOKE LINES, BOP VALVES, CHOKE MANIFOLD, KILL LINE TO 1500 PSI FOR 10 MIN, TEST CSG TO 1500 PSI FOR 30 MIN.
	9:00 - 10:00	1.00	MIRU	06	A	P		P/U AIR HAMMER, AND MAKE UP NEW 7-7/8" HAMMER BIT. INSTALL NEW ROT HEAD RUBBER.
	10:00 - 12:00	2.00	DRLPRO	02	F	P		TRIP IN TAG CEMENT 180'. PRODUCTION SPUD 10/23/2010 10:00 DRILL CEMENTAND FLOAT EQUIPMENT FROM 180'-285'.

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Event: DRILLING		Start Date: 10/14/2010	End Date: 10/25/2010
Active Datum: RKB @5,836.00ft (above Mean Sea Level)		UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/24/2010	12:00 - 12:30	0.50	DRLPRO	02	A	P		AIR HAMMER 285'-310' (25', 50'/HR) WOB 5-10K, RPM 45, DRILL W/ AIR AND INJECT WATER INTO BLOWIE LINE TO CONTROL DUST. PROBLEMS WITH AIR HAMMER DIGGING
	12:30 - 14:00	1.50	DRLPRO	22	A	X		DRILL STRING BECAME STUCK. WORK DRILL PIPE. UNABLE TO PUSH AIR. RIG PUT PUMP ON LINE AND PUMP WATER DOWN HOLE. FREED UP DRILL STRING.
	14:00 - 14:30	0.50	DRLPRO	05	F	X		CIRC OUT WATER WITH AIR, TRIED DRILLING BUT WAS UNABLE TO MAKE FOOTAGE.
	14:30 - 16:00	1.50	DRLPRO	06	A	Z		TRIP OUT OF HOLE, BIT WAS COVERED IN CEMENT, AFTER FUTHER INSPECTION. AIR HAMMER WAS NOT WORKING PROPERLY. LD AIR HAMMER.
	16:00 - 19:30	3.50	DRLPRO	22	L	Z		BREAK AIR HAMMER WITH SCORPION AND INSPECT INSIDE COMPONENTS. BROKEN AIR CHOKE INSIDE OF HAMMER WAS BROKE INTO 2 PIECES. TRY TO FIND CHOKE PARTS FOR AIR HAMMER. REPLACE AIR HAMMER.
	19:30 - 0:00	4.50	DRLPRO	02	A	P		DRILL W/ 7-7/8" AIR HAMMER AND BIT. 310'-1280' (970', 149'/HR) WOB 5-10K, ROT 45-55. CIRC W/ AIR INJECTING WATER INTO FLOWLINE TO CONTROL LOSSES
	0:00 - 9:00	9.00	DRLPRO	02	A	P		DRILL W/ AIR HAMMER FROM 1280'-2460'. (1180', 131'/HR) TD 10/24/2010 09:00. WOB 5-10K, RPM 45, SMALL WATER ZONE 2212', AIR MISTING PAST 2212'.
	9:00 - 9:30	0.50	EVALPR	05	F	P		CIRC HOLE CLEAN, WITH AIR MIST. LOAD HOLE W 157 BBLS OF PRODUCTION WATER.
	9:30 - 12:00	2.50	EVALPR	06	B	P		TRIP OUT OF HOLE FOR LOGS, PULL ROT HEAD RUBBER. LD AIR HAMMER.
	12:00 - 18:30	6.50	EVALPR	11	D	P		HOLD SAFETY MEETING W/ BAKER ATLAS, RIG UP BAKER ATLAS AND P/U MINI SLAM TOOLS. LOGGERS DEPTH=2474', LD MINI SLAM TOOLS AND PICK UP STAR IMAGING TOOL. LOG FROM 2474'-1460'.
	18:30 - 19:30	1.00	CSG	12	A	P		HOLD SAFETY MEETING. RIG UP TO RUN 5.5" CSG. PROBLEMS WITH GETTING SLIPS TO WORK.
	19:30 - 23:00	3.50	CSG	12	C	P		RUN 55 JTS OF 5.5" 15.5# J-55 LT&C CSG. SET GUIDE SHOE @ 2454'KB, FLOAT COLLAR RAN ON TOP OF SHOE JT SET @ 2407' KB. RUN CENTRILIZERS FIRST 3 AND EVERY THIRD ONE (20 TOTAL CENTRILIZERS) RIG UP CEMENT HEAD. BREAK CIRC.
	23:00 - 0:00	1.00	CSG	05	D	P		CIRC. DOWN CSG. GOOD CIRC. HOLD SAFETY MEETING. RIG UP CEMENTERS.
10/25/2010	0:00 - 2:00	2.00	CSG	12	E	P		PRESSURE TEST LINES TO 2500 PSI, PUMP 40 BBLS OF WATER AHEAD, GOOD CIRC. PUMP 210 SX (84.5 BBLS) OF 12.1# LEAD 2.26 YD 15.3 GAL/SK. PUMP 130 SX (26.8 BBLS) OF 15.8# TAIL 1.15 YD 5 GAL/SK. SHUT DOWN AND WASH UP, DROP PLUG AND DISPLACE W/ 57.3 BBLS OF H2O, LIFT PSI OF 750. BUMP PLUG @ 1350 PSI. FLOAT HELD. 5 BBLS OF CEMENT TO SURFACE. RIG DOWN CEMENTERS. FLUSH OUT STACK.

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	2:00 - 3:30	1.50	CSG	14	A	P		HOLD SAFETY MEETING AND NIPPLE DOWN BOPE, RIG DOWN BLOWIE LINE. P/U STACK AND SET SLIPS WITH 38K. CUT OFF 5.5" CSG AND SET STACK DOWN. RELEASE RIG 10/25/2010 03:30.

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
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3:30 - 3:30

0.00

CSG

CONDUCTOR CASING:

Cond. Depth set: 42'

Cement sx used: 0

SPUD DATE/TIME: 10/22/2010 12:00

SURFACE HOLE:

Surface From depth: 44

Surface To depth: 285

Total SURFACE hours: 2.00

Surface Casing size: 8-5/8"

of casing joints ran: 6

Casing set MD: 267.0

sx of cement: 137

Cement blend (ppg): 15.8# TAIL

Cement yield (ft3/sk): 1.15 YD

of bbls to surface: 3.4

Describe cement issues: TOP OUT W/ 17 SX OF 15.8# CEM.

Describe hole issues: NO ISSUES

PRODUCTION:

Rig Move/Skid start date/time: 10/22/2010 3:00

Rig Move/Skid finish date/time: 10/22/2010 12:00

Total MOVE hours: 9.0

Prod Rig Spud date/time: 10/23/2010 10:00

Rig Release date/time: 10/25/2010 3:30

Total SPUD to RR hours: 41.5

Planned depth MD 2,312

Planned depth TVD 2,312

Actual MD: 2,260

Actual TVD: 2,260

Open Wells \$: \$163,846

AFE \$: \$208,955

Open wells \$/ft: \$72.50

PRODUCTION HOLE:

Prod. From depth: 285

Prod. To depth: 2,260

Total PROD hours: 14

Log Depth: 2274

Production Casing size: 5 1/2

of casing joints ran: 55

Casing set MD: 2,254.0

sx of cement: 340

Cement blend (ppg): LEAD 12.1, TAIL 15.8

Cement yield (ft3/sk): LEAD 2.26 TAIL 1.15

Est. TOC (Lead & Tail) or 2 Stage : LEAD 9', TAIL 1807'

Describe cement issues: 5 BBLS CEMENT TO PIT

Describe hole issues: AIR HAMMER ISSUES AT START OF PRODUCTION

DIRECTIONAL INFO:

KOP:

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								Max angle: 1.00 Departure: Max dogleg MD:

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Project: UTAH-CARBON	Site: HELPER STATE 12-3		Rig Name No:
Event: COMPLETION	Start Date: 10/26/2010	End Date: 11/15/2010	
Active Datum: RKB @5,836.00ft (above Mean Sea Level)		UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/29/2010	6:00 - 16:00	10.00	COMP	30	A	P		6:00 AM MOVE RIG & EQUIP FROM HELPER VEA # 32-32, TO HELPER STATE # 12-3, (5.7 MI), SET EQUIP, STAND UP RIG, INSTALL & TEST BOP, RIG UP JW WIRELINE TRUCK, RIH W/ GUAGE RING, RUN CBL LOG W/OUT PRESS, & W/1000# PRESS., POOH, PRESSURE TEST CSG, TO 3500#, HELD, RIH PERFORATE WELL 2160' TO 2185', (25' 100 HOLES) W/ 4" CSG GUNS, POOH RIG DOWN JW WIRELINE., MADE UP HALLIBURTON 51/2" RET PKR # BTM HOLE PRESS BOMBS, RIH ON 27/8" TBG, 67 JTS, PICKING UP, SET PKR @ 2135.14', NO-GO PLUG @ 2099.14', EOT @ 2146.19', LAND TBG, RIG UP JW WIRELINE, & HALLIBURTON FRAC CREW, RIH W/ PLUG, BREAK DOWN WELL W/ 25 BBLs PROD WTR 3300# TO BREAK PERF'S, AVE PRESS 2250#, MAX PRESS 3250#, @ 2.6 BPM, CLOSE WELL IN FOR 24 HRS TEST, RIG DOWN HALLIBURTON, ETC., 4:00 PM SDFD
10/30/2010	10:00 - 19:00	9.00	COMP	30	A	P		10:00 AM CHECK WELL, WAIT ON WIRELINE TRUCK, BLEED OFF PRESS, 3100#, POOH W/ WL PLUG, RELEASE PKR, POOH W/ TBG, ETC. LAY DOWN TOOLS, RIG UP JW WIRELINE TRUCK, RIH SET BRIDGE PLUG @ 2142', TEST, RIH PERF WELL 2124'-2132', (8' 32 HOLES), POOH RIG DOWN JW WL, MADE UP HALLIBURTON PKR & BTM HOLE PRESS BOMBS, RIH SET PKR @ 2102.58', NO-GO @ 2066.58', EOT @ 2113.63', LAND TBG ON SLIPS, PRESS TEST, RIG UP JW WIRELINE, RIH W/ PLUG, RU HALLIBURTON, BREAK DOWN PERF'S, W/ 25 BBLs PROD WTR, BREAK @ 2100#, AVE PRESS 1925#, MAX PRESS 2115#, @ 2.6 BPM, CLOSE WELL IN FOR 24 HR TEST, SDFWE
11/1/2010	6:00 - 14:00	8.00	COMP	30	A	P		6:00 AM BLEED PRESS OFF TBG, POOH W/ PLUG FROM NO-GO, RELEASE PKR, POOH W/ TBG & TEST TOOLS, RIG UP JW WIRELINE, RIH SET BRIDGE PLUG @ 2078', PRESS TEST TO 1000#, HELD, RIH PERF WELL 2058'-2068', POOH RIG DOWN JW WIRELINE, MADE UP HALLIBURTON RET PKR # BTM HOLE PRESS BOMBS, RIH ON 27/8" TBG, 64 JTS, SET PKR @ 2037.53', NO-GO @ 2001.53', EOT @ 2048.58', LAND TBG ON SLIPS, RIG UP HALLIBURTON WIRELINE, RIG UP SUPERIOR FRAC TRUCK, TEST LINE ETC 4500#, RIH W/ PLUG, BREAK DOWN PERF'S, 3000#, AVE PRESS 2900#, MAX PRESS 3025# @ 2.6 BPM., CLOSE WELL IN FOR NIGHT, 2:00 PM SDFD

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11/2/2010	10:00 - 20:00	10.00	COMP	30	C	P		10:00 AM BLEED PRESS OFF TBG, 2850#, POOH W/ NO-GO WIRELINE SET PLUG, RIG DOWN HALLIBURTON WIRELINE TRUCK, RELEASE HALLIBURTON PKR, POOH W/ TBG, LAY DOWN TOOLS, MADE UP 43/4" BIT, RIH ON 27/8" TBG, DRILL OUT COMPOSITE BRIDGE PLUGS @ 2078' & 2142', CIRC HOLE CLEAN, POOH LAYING DOWN TBG, RIG UP JW WIRELINE TRUCK, SHOOT REMAINING PERF'S, 2155' TO 2031' (37 SHOTS 148 HOLES), RIG DOWN JW WIRELINE TRUCK, RIG UP FLOOR, STRIP OFF BOP, PREP TO RIG DOWN , 8:00 PM SDFD
11/3/2010	-		COMP	47		P		FINAL REPORT: I-OTHER, WELL'S READY TO FRAC
11/9/2010	6:45 - 7:50	1.08	COMP	36	B	P		INSTALL PIPELINE AND PRIMARY POWER
								MIRU SUPERIOR. FRAC FERRON DOWN 5.5" CASING WITH 95,415 GAL LINEAR AND CROSS-LINKED BORATE GEL 112,100# 30/50 SAND AND 47,000# 16/30 SAND. FORMATION BROKE 1896 PSI AT 14.7 BPM. AVE PRESSURE 2546 PSI, AVE RATE 66.1 BPM. COULDN'T GET SCREWS TO TURN, HAD TO SHUT DOWN IN PAD FOR 15 MINUTES TO GET THEM FIXED AND REDESIGN. RAN SAND HEAVY TO MAKE UP FOR EXTRA WATER PUMPED, STILL RAN OUT OF WATER AND DIDN'T GET 6PPG STAGE PUMPED. RDMO SUPERIOR.
11/10/2010	11:30 - 17:00	5.50	COMP	30	A	P		11:30 AM MOVE RIG & EQUIP FROM WELLINGTON FED. # 33-19, TO HELPER ST. # 12-3, (10.3 MI), SET EQUIP, STAND UP RIG, BLEED PRESS OFF WELL, REMOVE FRAC VALVE, INSTALL BOP, MADE UP RBS CLEAN OUT TOOLS, TALLY & PICK UP 27/8" TBG, STOP JUST ABOVE PERF'S, CLOSE WELL IN FOR NIGHT, 5:00 PM SDFD
11/11/2010	7:00 - 17:00	10.00	COMP	30	C	P		7:00 AM BLEED PRESS OFF WELL, TBG 100#, CSG 180#, RIH CLEAN OUT WELL, TAG FILL @ 2149', C/O TO PBTD @ 2387', POOH LAY DOWN RBS TOOLS, MADE UP NEW BHA, RIH W/ 23/8" NOTCHED PINNED JT, 5 JTS 23/8" TBG, (DIP TUBE), 51/2" TECH TAC LH SET TA/C, X-OVER, 1 JT 27/8" TBG, 27/8" PSN, 63 JTS 27/8" TBG, RIG UP FLOOR, STRIP OFF BOP, SET TA/C @ 2026.53', PSN @ 1993.19', EOT @ 2207.90', LAND TBG ON WEATHERFORD KTH FLANGE W/ 20,000# TENSION ON TBG, PUT WELLHEAD ETC TOGETHER, FLUSH TBG, PICK UP TEST ROD PUMP, (P.S. # ANA-236 21/2"x2"x16' RWAC STEEL BBL 3' SM PLUNGER 134" STROKE), RIH W/ PUMP, 15-7/8", 49-3/4", & 15-7/8" RODS ALL W/G'S, 1-2"x7/8" PONY ROD, POLISH ROD, SAPCE OUT, SEAT PUMP, FILL TBG, STROKE TEST TO 1000#, HELD, GOOD PUMP ACTION, HANG OFF RODS, LAY DOWN RIG, LOAD EQUIP, WELL'S READY TO PUMP, 5:00 PM SDFD
	17:00 - 17:00	0.00	RDMO	47		P		FINAL REPORT: COMPLETION

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11/12/2010	-							MOVE IN CONTRACTORS TO SET WELL SURFACE EQUIPMENT. NELCO BUILT PUMP UNIT PAD. WEATHERFORD SET PUMP UNIT. GG CONSTRUCTION SET METER HOUSE. BODEC MADE ELECTRICAL CONNECTIONS. WEATHERFORD METER HOUSE.
11/15/2010	-		COMP	47		P		MOVE IN NELCO EQUIPMENT; REMOVE PIT NET AND FENCE. CLOSE PIT AND RECONTOUR LOCATION. GRAVEL LOCATION. RESEED DISTURB AREAS.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: ANADARKO PETROLEUM CORP.		7. UNIT or CA AGREEMENT NAME
3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217-3779		8. WELL NAME and NUMBER: HELPER STATE 12-3
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2113 FNL 524 FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: 2113 FNL 524 FWL AT TOTAL DEPTH: 2113 FNL 524 FWL		9. API NUMBER: 4300750070
PHONE NUMBER: (720) 929-6282		10. FIELD AND POOL, OR WILDCAT HELPER
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 3 14S 10E S
		12. COUNTY CARBON
		13. STATE UTAH

14. DATE SPUDDED: 10/22/2010	15. DATE T.D. REACHED: 10/24/2010	16. DATE COMPLETED: 11/15/2010	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5827
18. TOTAL DEPTH: MD 2,460 TVD	19. PLUG BACK T.D.: MD TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE MD PLUG SET: TVD	
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CEMENT BOND LOG (CBL)			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
8 5/8"	J-55	24		267		CLS G 136	29		
5 1/2"	J-55	15.5		2,454		CLS G 340	152		

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8	2,208							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) FERRON	2,031	2,185			2,031 2,185		320	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
2031' - 2185'	95415 GAL BORATE GEL, 112100# 30/50 SAND, 47000# 16/30 SAND

29. ENCLOSED ATTACHMENTS:

- ☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☒ OTHER: DRILLING REPORT

30. WELL STATUS:

RECEIVED

JUN 06 2011

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 10/16/2010		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				FERRON TUNUNK SHALE	2,017 2,254


35. ADDITIONAL REMARKS (Include plugging procedure)

THIS WELL WAS NOT TESTED. WENT TO SALES. HELPER STATE 12-3

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) RALEEN WHITETITLE LANDMAN I

SIGNATURE

DATE 6/23/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- re completing to a different producing formation
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION
Operation Summary Report

Well: HELPER STATE 12-3		Spud Conductor: 10/22/2010		Spud Date: 10/22/2010	
Project: UTAH-CARBON		Site: HELPER STATE 12-3		Rig Name No: PENSE BROTHERS 18/18, PENSE BROTHERS 19/19	
Event: DRILLING		Start Date: 10/14/2010		End Date: 10/25/2010	
Active Datum: RKB @5,836.00ft (above Mean Sea Level)		UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/22/2010	3:00 - 7:00	4.00	RDMO	01	E	P		RIG DOWN RIG AND READY FOR TRUCKS.
	7:00 - 10:00	3.00	MIRU	01	A	P		MOVE RIG TO LOCATION, SPOT IN RIG W/ NELCO TRUCKING.
	10:00 - 12:00	2.00	MIRU	01	B	P		RIG UP RIG, RIG UP PUMP, P/U 13-5/8" TRICONE. HOLD PRESPUD SAFETY MEETING AND RIG INSPECTION.
	12:00 - 13:00	1.00	DRLCON	02	A	P		CONDUCTOR SPUD 10/22/2010 12:00. DRILL 13-5/8" HOLE WITH WATER DOWN TO 42'.
	13:00 - 13:30	0.50	CSG	12	C	P		RUN 13-3/8" CONDUCTOR PIPE AND SEAT.
	13:30 - 16:00	2.50	MIRU	14	A	P		RIG UP AIR BOWL, AND BLOWIE LINE, RIG UP AIR PACKAGE, P/U 11" AIR HAMMER.
	16:00 - 18:00	2.00	DRLSUR	02	A	P		SURFACE SPUD 10/22/2010 16:00 DRILL W/ 11" AIR HAMMER, 42'- 285'. (243', 122'/HR) ROT 45, 5K ON BIT. TD 10/22/2010 18:00.
	18:00 - 18:30	0.50	DRLSUR	06	A	P		BLOW HOLE CLEAN. TRIP OUT LD 11" AIR HAMMER
	18:30 - 19:30	1.00	CSG	12	C	P		RIG DOWN , BOWIE LINE AND AIR BOWL, HOLD SAFETY MEETING AND RUN 6 JTS OF 8-5/8" SURFACE CSG AND SET @ 267'KB, BAFFLE RAN IN TOP OF SHOE JT, SET @ 223' KB, CENTRALIZERS RAN FIRST 2 AND EVERY OTHER ONE. 4 TOTAL. LOAD HOLE WATER.
	19:30 - 23:00	3.50	CSG	12	E	P		HOLD SAFETY MEETING, RIG UP CEMENTERS, PSI TEST TO 2000 PSI, PUMP 15 BBLS OF H2O AHEAD, CATCH CIRC. PUMP 119 SX (24.2 BBLS) OF 15.8#, 1.15 YD 5 GAL/SK 2% CALC. DISPLACE W 12.9 BBLS OF H2O STOP 20' SHY OF BAFFLE. 3.5 BBLS OF CEMENT TO SURFACE. CEMENT FELL AFTER JOB. WAIT 1.5 HRS AND TOP OUT W/ 17 SX (3.4 BBLS) OF 15.8# 2% CALC. CEMENT. CEMENT TO SURFACE. MARK JONES WITH UTAH STATE PRESENT FOR CEMENT JOB.
10/23/2010	23:00 - 0:00	1.00	CSG	13	A	P		DIG OUT CELLAR, READY RIG TO CUT OFF CSG AND CEMENT WELL HEAD.
	0:00 - 1:30	1.50	CSG	13	A	P		WAIT ON CEMENT.
	1:30 - 3:30	2.00	CSG	14	A	P		CUT OFF CONDUCTOR, CUT OFF 9' , 8-5/8 CSG, WELD ON CSG HEAD. WELD ON BLOWIE LINE
	3:30 - 6:00	2.50	MIRU	14	A	P		SAFETY MEETING, NIPPLE UP STACK, NIPPLE UP CHOKE LINE AND MANIFOLD, NIPPLE UP BLOWIE LINE.
	6:00 - 9:00	3.00	MIRU	15	A	P		SAFETY MEETING, TEST ANNULAR, CHOKE LINES, BOP VALVES, CHOKE MANIFOLD, KILL LINE TO 1500 PSI FOR 10 MIN, TEST CSG TO 1500 PSI FOR 30 MIN.
	9:00 - 10:00	1.00	MIRU	06	A	P		P/U AIR HAMMER, AND MAKE UP NEW 7-7/8" HAMMER BIT. INSTALL NEW ROT HEAD RUBBER. TRIP IN TAG CEMENT 180'.
	10:00 - 12:00	2.00	DRLPRO	02	F	P		PRODUCTION SPUD 10/23/2010 10:00 DRILL CEMENTAND FLOAT EQUIPMENT FROM 180'-285'.

US ROCKIES REGION
Operation Summary Report

Well: HELPER STATE 12-3		Spud Conductor: 10/22/2010	Spud Date: 10/22/2010
Project: UTAH-CARBON	Site: HELPER STATE 12-3		Rig Name No: PENSE BROTHERS 18/18, PENSE BROTHERS 19/19
Event: DRILLING	Start Date: 10/14/2010	End Date: 10/25/2010	
Active Datum: RKB @5,836.00ft (above Mean Sea Level)		UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/24/2010	12:00 - 12:30	0.50	DRLPRO	02	A	P		AIR HAMMER 285'-310' (25', 50'/HR) WOB 5-10K, RPM 45, DRILL W/ AIR AND INJECT WATER INTO BLOWIE LINE TO CONTROL DUST. PROBLEMS WITH AIR HAMMER DIGGING
	12:30 - 14:00	1.50	DRLPRO	22	A	X		DRILL STRING BECAME STUCK. WORK DRILL PIPE. UNABLE TO PUSH AIR. RIG PUT PUMP ON LINE AND PUMP WATER DOWN HOLE. FREED UP DRILL STRING.
	14:00 - 14:30	0.50	DRLPRO	05	F	X		CIRC OUT WATER WITH AIR, TRIED DRILLING BUT WAS UNABLE TO MAKE FOOTAGE.
	14:30 - 16:00	1.50	DRLPRO	06	A	Z		TRIP OUT OF HOLE, BIT WAS COVERED IN CEMENT, AFTER FUTHER INSPECTION. AIR HAMMER WAS NOT WORKING PROPERLY. LD AIR HAMMER.
	16:00 - 19:30	3.50	DRLPRO	22	L	Z		BREAK AIR HAMMER WITH SCORPION AND INSPECT INSIDE COMPONENTS. BROKEN AIR CHOKE INSIDE OF HAMMER WAS BROKE INTO 2 PIECES. TRY TO FIND CHOKE PARTS FOR AIR HAMMER. REPLACE AIR HAMMER.
	19:30 - 0:00	4.50	DRLPRO	02	A	P		DRILL W/ 7-7/8" AIR HAMMER AND BIT. 310'-1280' (970', 149'/HR) WOB 5-10K, ROT 45-55. CIRC W/ AIR INJECTING WATER INTO FLOWLINE TO CONTROL LOSSES
	0:00 - 9:00	9.00	DRLPRO	02	A	P		DRILL W/ AIR HAMMER FROM 1280'-2460'. (1180', 131'/HR) TD 10/24/2010 09:00. WOB 5-10K, RPM 45, SMALL WATER ZONE 2212', AIR MISTING PAST 2212'.
	9:00 - 9:30	0.50	EVALPR	05	F	P		CIRC HOLE CLEAN, WITH AIR MIST. LOAD HOLE W 157 BBLS OF PRODUCTION WATER.
	9:30 - 12:00	2.50	EVALPR	06	B	P		TRIP OUT OF HOLE FOR LOGS, PULL ROT HEAD RUBBER. LD AIR HAMMER.
	12:00 - 18:30	6.50	EVALPR	11	D	P		HOLD SAFETY MEETING W/ BAKER ATLAS, RIG UP BAKER ATLAS AND P/U MINI SLAM TOOLS. LOGGERS DEPTH=2474', LD MINI SLAM TOOLS AND PICK UP STAR IMAGING TOOL. LOG FROM 2474'-1460'.
10/25/2010	18:30 - 19:30	1.00	CSG	12	A	P		HOLD SAFETY MEETING. RIG UP TO RUN 5.5" CSG. PROBLEMS WITH GETTING SLIPS TO WORK.
	19:30 - 23:00	3.50	CSG	12	C	P		RUN 55 JTS OF 5.5" 15.5# J-55 LT&C CSG. SET GUIDE SHOE @ 2454'KB, FLOAT COLLAR RAN ON TOP OF SHOE JT SET @ 2407' KB. RUN CENTRILIZERS FIRST 3 AND EVERY THIRD ONE (20 TOTAL CENTRILIZERS) RIG UP CEMENT HEAD. BREAK CIRC.
	23:00 - 0:00	1.00	CSG	05	D	P		CIRC. DOWN CSG. GOOD CIRC. HOLD SAFETY MEETING. RIG UP CEMENTERS.
	0:00 - 2:00	2.00	CSG	12	E	P		PRESSURE TEST LINES TO 2500 PSI, PUMP 40 BBLS OF WATER AHEAD, GOOD CIRC. PUMP 210 SX (84.5 BBLS) OF 12.1# LEAD 2.26 YD 15.3 GAL/SK. PUMP 130 SX (26.8 BBLS) OF 15.8# TAIL 1.15 YD 5 GAL/SK. SHUT DOWN AND WASH UP, DROP PLUG AND DISPLACE W/ 57.3 BBLS OF H2O, LIFT PSI OF 750. BUMP PLUG @ 1350 PSI. FLOAT HELD. 5 BBLS OF CEMENT TO SURFACE. RIG DOWN CEMENTERS. FLUSH OUT STACK.

US ROCKIES REGION
Operation Summary Report

Well: HELPER STATE 12-3		Spud Conductor: 10/22/2010		Spud Date: 10/22/2010				
Project: UTAH-CARBON		Site: HELPER STATE 12-3		Rig Name No: PENSE BROTHERS 18/18, PENSE BROTHERS 19/19				
Event: DRILLING		Start Date: 10/14/2010		End Date: 10/25/2010				
Active Datum: RKB @5,836.00ft (above Mean Sea Level)		UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	2:00 - 3:30	1.50	CSG	14	A	P		HOLD SAFETY MEETING AND NIPPLE DOWN BOPE, RIG DOWN BLOWIE LINE. P/U STACK AND SET SLIPS WITH 38K. CUT OFF 5.5" CSG AND SET STACK DOWN. RELEASE RIG 10/25/2010 03:30.

US ROCKIES REGION
Operation Summary Report

Well: HELPER STATE 12-3		Spud Conductor: 10/22/2010	Spud Date: 10/22/2010
Project: UTAH-CARBON		Site: HELPER STATE 12-3	Rig Name No: PENSE BROTHERS 18/18, PENSE BROTHERS 19/19
Event: DRILLING		Start Date: 10/14/2010	End Date: 10/25/2010
Active Datum: RKB @5,836.00ft (above Mean Sea Level)		UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	3:30 - 3:30	0.00	CSG					<p>CONDUCTOR CASING:</p> <p>Cond. Depth set: 42'</p> <p>Cement sx used: 0</p> <p>SPUD DATE/TIME: 10/22/2010 12:00</p> <p>SURFACE HOLE:</p> <p>Surface From depth: 44</p> <p>Surface To depth: 285</p> <p>Total SURFACE hours: 2.00</p> <p>Surface Casing size: 8-5/8"</p> <p># of casing joints ran: 6</p> <p>Casing set MD: 267.0</p> <p># sx of cement: 137</p> <p>Cement blend (ppg): 15.8# TAIL</p> <p>Cement yield (ft3/sk): 1.15 YD</p> <p># of bbls to surface: 3.4</p> <p>Describe cement issues: TOP OUT W/ 17 SX OF 15.8# CEM.</p> <p>Describe hole issues: NO ISSUES</p> <p>PRODUCTION:</p> <p>Rig Move/Skid start date/time: 10/22/2010 3:00</p> <p>Rig Move/Skid finish date/time: 10/22/2010 12:00</p> <p>Total MOVE hours: 9.0</p> <p>Prod Rig Spud date/time: 10/23/2010 10:00</p> <p>Rig Release date/time: 10/25/2010 3:30</p> <p>Total SPUD to RR hours: 41.5</p> <p>Planned depth MD 2,312</p> <p>Planned depth TVD 2,312</p> <p>Actual MD: 2,260</p> <p>Actual TVD: 2,260</p> <p>Open Wells \$: \$163,846</p> <p>AFE \$: \$208,955</p> <p>Open wells \$/ft: \$72.50</p> <p>PRODUCTION HOLE:</p> <p>Prod. From depth: 285</p> <p>Prod. To depth: 2,260</p> <p>Total PROD hours: 14</p> <p>Log Depth: 2274</p> <p>Production Casing size: 5 1/2</p> <p># of casing joints ran: 55</p> <p>Casing set MD: 2,254.0</p> <p># sx of cement: 340</p> <p>Cement blend (ppg): LEAD 12.1, TAIL 15.8</p> <p>Cement yield (ft3/sk): LEAD 2.26 TAIL 1.15</p> <p>Est. TOC (Lead & Tail) or 2 Stage : LEAD 9', TAIL 1807'</p> <p>Describe cement issues: 5 BBLS CEMENT TO PIT</p> <p>Describe hole issues: AIR HAMMER ISSUES AT START OF PRODUCTION</p> <p>DIRECTIONAL INFO:</p> <p>KOP:</p>

US ROCKIES REGION
Operation Summary Report

Well: HELPER STATE 12-3			Spud Conductor: 10/22/2010			Spud Date: 10/22/2010		
Project: UTAH-CARBON			Site: HELPER STATE 12-3			Rig Name No: PENSE BROTHERS 18/18, PENSE BROTHERS 19/19		
Event: DRILLING			Start Date: 10/14/2010			End Date: 10/25/2010		
Active Datum: RKB @5,836.00ft (above Mean Sea Level)			UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								Max angle: 1.00 Departure: Max dogleg MD:

US ROCKIES REGION
Operation Summary Report

Well: HELPER STATE 12-3		Spud Conductor: 10/22/2010	Spud Date: 10/22/2010
Project: UTAH-CARBON	Site: HELPER STATE 12-3		Rig Name No:
Event: COMPLETION	Start Date: 10/26/2010	End Date: 11/15/2010	
Active Datum: RKB @5,836.00ft (above Mean Sea Level)		UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/29/2010	6:00 - 16:00	10.00	COMP	30	A	P		6:00 AM MOVE RIG & EQUIP FROM HELPER VEA # 32-32, TO HELPER STATE # 12-3, (5.7 MI), SET EQUIP, STAND UP RIG, INSTALL & TEST BOP, RIG UP JW WIRELINE TRUCK, RIH W/ GUAGE RING, RUN CBL LOG W/OUT PRESS, & W/1000# PRESS., POOH, PRESSURE TEST CSG, TO 3500#, HELD, RIH PERFORATE WELL 2160' TO 2185', (25' 100 HOLES) W/ 4" CSG GUNS, POOH RIG DOWN JW WIRELINE., MADE UP HALLIBURTON 51/2" RET PKR # BTM HOLE PRESS BOMBS, RIH ON 27/8" TBG, 67 JTS, PICKING UP, SET PKR @ 2135.14', NO-GO PLUG @ 2099.14', EOT @ 2146.19', LAND TBG, RIG UP JW WIRELINE, & HALLIBURTON FRAC CREW, RIH W/ PLUG, BREAK DOWN WELL W/ 25 BBLs PROD WTR 3300# TO BREAK PERF'S, AVE PRESS 2250#, MAX PRESS 3250#, @ 2.6 BPM, CLOSE WELL IN FOR 24 HRS TEST, RIG DOWN HALLIBURTON, ETC., 4:00 PM SDFD
10/30/2010	10:00 - 19:00	9.00	COMP	30	A	P		10:00 AM CHECK WELL, WAIT ON WIRELINE TRUCK, BLEED OFF PRESS, 3100#, POOH W/ WL PLUG, RELEASE PKR, POOH W/ TBG, ETC. LAY DOWN TOOLS, RIG UP JW WIRELINE TRUCK, RIH SET BRIDGE PLUG @ 2142', TEST, RIH PERF WELL 2124'-2132', (8' 32 HOLES), POOH RIG DOWN JW WL, MADE UP HALLIBURTON PKR & BTM HOLE PRESS BOMBS, RIH SET PKR @ 2102.58', NO-GO @ 2066.58', EOT @ 2113.63', LAND TBG ON SLIPS, PRESS TEST, RIG UP JW WIRELINE, RIH W/ PLUG, RU HALLIBURTON, BREAK DOWN PERF'S, W/ 25 BBLs PROD WTR, BREAK @ 2100#, AVE PRESS 1925#, MAX PRESS 2115#, @ 2.6 BPM, CLOSE WELL IN FOR 24 HR TEST, SDFWE
11/1/2010	6:00 - 14:00	8.00	COMP	30	A	P		6:00 AM BLEED PRESS OFF TBG, POOH W/ PLUG FROM NO-GO, RELEASE PKR, POOH W/ TBG & TEST TOOLS, RIG UP JW WIRELINE, RIH SET BRIDGE PLUG @ 2078', PRESS TEST TO 1000#, HELD, RIH PERF WELL 2058'-2068', POOH RIG DOWN JW WIRELINE, MADE UP HALLIBURTON RET PKR # BTM HOLE PRESS BOMBS, RIH ON 27/8" TBG, 64 JTS, SET PKR @ 2037.53', NO-GO @ 2001.53', EOT @ 2048.58', LAND TBG ON SLIPS, RIG UP HALLIBURTON WIRELINE, RIG UP SUPERIOR FRAC TRUCK, TEST LINE ETC 4500#, RIH W/ PLUG, BREAK DOWN PERF'S, 3000#, AVE PRESS 2900#, MAX PRESS 3025# @ 2.6 BPM., CLOSE WELL IN FOR NIGHT, 2:00 PM SDFD

US ROCKIES REGION
Operation Summary Report

Well: HELPER STATE 12-3		Spud Conductor: 10/22/2010		Spud Date: 10/22/2010	
Project: UTAH-CARBON		Site: HELPER STATE 12-3			Rig Name No:
Event: COMPLETION		Start Date: 10/26/2010		End Date: 11/15/2010	
Active Datum: RKB @5,836.00ft (above Mean Sea Level)			UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/2/2010	10:00 - 20:00	10.00	COMP	30	C	P		10:00 AM BLEED PRESS OFF TBG, 2850#, POOH W/ NO-GO WIRELINE SET PLUG, RIG DOWN HALLIBURTON WIRELINE TRUCK, RELEASE HALLIBURTON PKR, POOH W/ TBG, LAY DOWN TOOLS, MADE UP 43/4" BIT, RIH ON 27/8" TBG, DRILL OUT COMPOSITE BRIDGE PLUGS @ 2078' & 2142', CIRC HOLE CLEAN, POOH LAYING DOWN TBG, RIG UP JW WIRELINE TRUCK, SHOOT REMAINING PERF'S, 2155' TO 2031' (37 SHOTS 148 HOLES), RIG DOWN JW WIRELINE TRUCK, RIG UP FLOOR, STRIP OFF BOP, PREP TO RIG DOWN , 8:00 PM SDFD
11/3/2010	-		COMP	47		P		FINAL REPORT: I-OTHER, WELL'S READY TO FRAC INSTALL PIPELINE AND PRIMARY POWER
11/9/2010	6:45 - 7:50	1.08	COMP	36	B	P		MIRU SUPERIOR. FRAC FERRON DOWN 5.5" CASING WITH 95,415 GAL LINEAR AND CROSS-LINKED BORATE GEL 112,100# 30/50 SAND AND 47,000# 16/30 SAND. FORMATION BROKE 1896 PSI AT 14.7 BPM. AVE PRESSURE 2546 PSI, AVE RATE 66.1 BPM. COULDN'T GET SCREWS TO TURN, HAD TO SHUT DOWN IN PAD FOR 15 MINUTES TO GET THEM FIXED AND REDESIGN. RAN SAND HEAVY TO MAKE UP FOR EXTRA WATER PUMPED, STILL RAN OUT OF WATER AND DIDN'T GET 6PPG STAGE PUMPED. RDMO SUPERIOR.
11/10/2010	11:30 - 17:00	5.50	COMP	30	A	P		11:30 AM MOVE RIG & EQUIP FROM WELLINGTON FED. # 33-19, TO HELPER ST. # 12-3, (10.3 MI), SET EQUIP, STAND UP RIG, BLEED PRESS OFF WELL, REMOVE FRAC VALVE, INSTALL BOP, MADE UP RBS CLEAN OUT TOOLS, TALLY & PICK UP 27/8" TBG, STOP JUST ABOVE PERF'S, CLOSE WELL IN FOR NIGHT, 5:00 PM SDFD
11/11/2010	7:00 - 17:00	10.00	COMP	30	C	P		7:00 AM BLEED PRESS OFF WELL, TBG 100#, CSG 180#, RIH CLEAN OUT WELL, TAG FILL @ 2149', C/O TO PBTD @ 2387', POOH LAY DOWN RBS TOOLS, MADE UP NEW BHA, RIH W/ 23/8" NOTCHED PINNED JT, 5 JTS 23/8" TBG, (DIP TUBE), 51/2" TECH TAC LH SET TAC, X-OVER, 1 JT 27/8" TBG, 27/8" PSN, 63 JTS 27/8" TBG, RIG UP FLOOR, STRIP OFF BOP, SET TAC @ 2026.53', PSN @ 1993.19', EOT @ 2207.90', LAND TBG ON WEATHERFORD KTH FLANGE W/ 20,000# TENSION ON TBG, PUT WELLHEAD ETC TOGETHER, FLUSH TBG, PICK UP TEST ROD PUMP, (P.S. # ANA-236 21/2"X2"X16' RWAC STEEL BBL 3' SM PLUNGER 134" STROKE), RIH W/ PUMP, 15-7/8", 49-3/4", & 15-7/8" RODS ALL W/G'S, 1-2'X7/8" PONY ROD, POLISH ROD, SAPCE OUT, SEAT PUMP, FILL TBG, STROKE TEST TO 1000#, HELD, GOOD PUMP ACTION, HANG OFF RODS, LAY DOWN RIG, LOAD EQUIP, WELL'S READY TO PUMP, 5:00 PM SDFD
	17:00 - 17:00	0.00	RDMO	47		P		FINAL REPORT: COMPLETION

US ROCKIES REGION

Operation Summary Report

Well: HELPER STATE 12-3			Spud Conductor: 10/22/2010			Spud Date: 10/22/2010		
Project: UTAH-CARBON			Site: HELPER STATE 12-3				Rig Name No:	
Event: COMPLETION			Start Date: 10/26/2010				End Date: 11/15/2010	
Active Datum: RKB @5,836.00ft (above Mean Sea Level)				UWI: SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/12/2010	-							MOVE IN CONTRACTORS TO SET WELL SURFACE EQUIPMENT. NELCO BUILT PUMP UNIT PAD. WEATHERFORD SET PUMP UNIT. GG CONSTRUCTION SET METER HOUSE. BODEC MADE ELECTRICAL CONNECTIONS. WEATHERFORD METER HOUSE.
11/15/2010	-		COMP	47		P		MOVE IN NELCO EQUIPMENT; REMOVE PIT NET AND FENCE. CLOSE PIT AND RECONTOUR LOCATION. GRAVEL LOCATION. RESEED DISTURB AREAS.

US ROCKIES REGION

UTAH-CARBON
HELPER STATE 12-3
HELPER STATE 12-3
DRILLING

Cementing Report

Date: 10/22/2010 / Report No.: 1

Created by :

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General**1.1 Customer Information**

Company	US ROCKIES REGION
Representative	
Address	

1.2 Wellbore Schematic**1.3 Well Information**

Well	HELPER STATE 12-3		
Common Name	HELPER STATE 12-3		
Well Name	HELPER STATE 12-3	Wellbore No.	OH
Report No.	1	Report Date	10/22/2010
Project	UTAH-CARBON	Site	HELPER STATE 12-3
Rig Name/No.	PENSE BROTHERS 19/19	Event	DRILLING
Start Date	10/14/2010	End Date	10/25/2010
Spud Date	10/22/2010	Active Datum	RKB @5,836.00ft (above Mean Sea Level)
UWI	SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0		

1.4 General Information

Job Type	Primary	Job Desc	Primary SURFACE
Job Start Date/Time	10/22/2010 8:30AM	Job End Date/Time	10/22/2010 11:00PM
N2 Used	N	CO2	N
Zone Isolated	N		
Contractor	SANJEL CEMENTERS	Arrival Date/Time	
Cementer			
Assembly	SURFACE CASING	Tubing/Casing Size	8.625 (in)
MD Landed	267.6 (ft)	Hole Size	13.625 (in)
Ground Temp		Air Temp	
Seabed Temp		Annulus Temp	
BHT			

1.5 Pipe Movement

Pipe Movement	NO MOVEMENT		
Rotating Date/Time (start-End)		Rotating RPM	
Reciprocating Date/Time (start-End)		Rotating Torque (init/avg/max)	(ft-lbf)
SPM		Recip Drag Up/Down	- (kip)
Stroke Length			

1.6 Shoetrack Cement

Shoetrack Top MD		Shoetrack Drill Date/Time	
Shoetrack Drill MD			

2 Fluids

2.1

Fluid Type	TAIL	Top/Base	(ft)
Purpose		Class	CLASS G
Density	15.80 (ppg)	Description	PREMIUM
Yield	1.1500 (ft³/sk)	Mix Water Ratio	5.000 (gal/sk94)
Cement Used Volume	10.2 (bbl)	Total Water Volume Used	14.2 (bbl)
Sacks Used	119.00	Other Amount Used	
Total Slurry Volume	24.4 (bbl)	Excess Slurry Volume	24.4 (bbl)
Mud Type		Fluid Density	
PV		YP	
Funnel Viscosity		Gels 10 Sec	
Gels 10 Min		Gels 30 Min	

2.1.1 Additives

Name	Type	Amount	Units	Concentration	Concentration Unit
CALC2	ACCELERATOR		% BWOC	2.000	
POLY FLAKE			LBS/SACK	0.250	

2.2

Fluid Type	TOP OUT	Top/Base	(ft)
Purpose		Class	CLASS G
Density	15.80 (ppg)	Description	PREMIUM
Yield	1.1500 (ft³/sk)	Mix Water Ratio	5.000 (gal/sk94)
Cement Used Volume	1.5 (bbl)	Total Water Volume Used	2.0 (bbl)
Sacks Used	17.00	Other Amount Used	
Total Slurry Volume	3.5 (bbl)	Excess Slurry Volume	0.0 (bbl)
Mud Type		Fluid Density	0.00 (ppg)
PV	0.00 (cp)	YP	0.000 (lb/100ft²)
Funnel Viscosity	0.00 (s/qt)	Gels 10 Sec	0.000 (lb/100ft²)
Gels 10 Min	0.000 (lb/100ft²)	Gels 30 Min	0.000 (lb/100ft²)

2.2.1 Additives

Name	Type	Amount	Units	Concentration	Concentration Unit
CALC2	ACCELERATOR		% BWOC	2.000	
POLY FLAKE			LBS/SACK	0.250	

3 Stages

3.1 Cementing Stages

Stage No.	Type	PRIM CMT 1ST STAGE
MD Top (ft)	9.0	MD Base (ft) 285.0
Hole Size (in)	11.000	Initial/Final Casing Pressure (psi) 25.00/150.00
Circulate Flow Rate (gpm)	25.0	Circulate Press (psi) 25.00
Circulate Prior (hr)		Vol Returns (bbl) 3.5
Total Mud Lost (bbl)		

3.1.1 Pumping Schedule

Fluid Pumped	Volume (bbl)	Rate (bbl/min)	Slurry Top MD (ft)	Slurry Base MD (ft)	Disp Rate Final (bbl/min)	Disp Pressure Final (psi)	Top Of Fluid (ft)	Pumping Start Date/Time	Pumping End Date/Time	Operation	Shutdown Time (min)	Foam Job	Foam Gas Type	Foam Gas Vol Used (scf)
- TOP OUT	3.5	0.50	9.00	37.00				10/22/2010 11:15PM	10/22/2010 11:15PM			N		
- TAIL	24.4	4.00	37.00	285.00				10/22/2010 8:45PM	10/22/2010 8:45PM			N		

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US ROCKIES REGION

UTAH-CARBON
HELPER STATE 12-3
HELPER STATE 12-3
DRILLING

Cementing Report

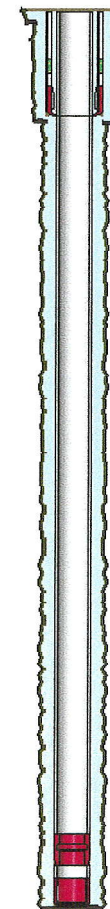
Date: 10/25/2010 / Report No.: 2

Created by :

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1 General**1.1 Customer Information**

Company	US ROCKIES REGION
Representative	
Address	

1.2 Wellbore Schematic**1.3 Well Information**

Well	HELPER STATE 12-3		
Common Name	HELPER STATE 12-3		
Well Name	HELPER STATE 12-3	Wellbore No.	OH
Report No.	2	Report Date	10/25/2010
Project	UTAH-CARBON	Site	HELPER STATE 12-3
Rig Name/No.	PENSE BROTHERS 19/19	Event	DRILLING
Start Date	10/14/2010	End Date	10/25/2010
Spud Date	10/22/2010	Active Datum	RKB @5,836.00ft (above Mean Sea Level)
UWI	SW/NW/0/14/S/10/E/3/0/0/6/PM/N/2,113.00/W/0/524.00/0/0		

1.4 General Information

Job Type	Primary	Job Desc	Primary PRODUCTION
Job Start Date/Time	10/25/2010 12:00AM	Job End Date/Time	10/25/2010 2:00AM
N2 Used	N	CO2	N
Zone Isolated	N		
Contractor	SANJEL CEMENTERS	Arrival Date/Time	
Cementer			
Assembly	PRODUCTION CASING	Tubing/Casing Size	5.500 (in)
MD Landed	2,454.0 (ft)	Hole Size	13.625 (in)
Ground Temp		Air Temp	
Seabed Temp		Annulus Temp	
BHT			

1.5 Pipe Movement

Pipe Movement			
Rotating Date/Time (start-End)		Rotating RPM	
Reciprocating Date/Time (start-End)		Rotating Torque (init/avg/max)	(ft-lbf)
SPM		Recip Drag Up/Down	- (kip)
Stroke Length			

1.6 Shoetrack Cement

Shoetrack Top MD		Shoetrack Drill Date/Time	
Shoetrack Drill MD			

2 Fluids

2.1

Fluid Type	PRE FLUSH	Top/Base	(ft)
Purpose		Class	
Density	8.30 (ppg)	Description	WATER
Yield		Mix Water Ratio	
Cement Used Volume		Total Water Volume Used	40.0 (bbl)
Sacks Used		Other Amount Used	
Total Slurry Volume	40.0 (bbl)	Excess Slurry Volume	0.0 (bbl)
Mud Type		Fluid Density	
PV		YP	
Funnel Viscosity		Gels 10 Sec	
Gels 10 Min		Gels 30 Min	

2.2

Fluid Type	LEAD	Top/Base	(ft)
Purpose		Class	CLASS G
Density	12.10 (ppg)	Description	LITEFILL
Yield	2.2600 (ft ³ /sk)	Mix Water Ratio	12.500 (gal/sk94)
Cement Used Volume	22.0 (bbl)	Total Water Volume Used	62.5 (bbl)
Sacks Used	210.00	Other Amount Used	
Total Slurry Volume	84.5 (bbl)	Excess Slurry Volume	25.4 (bbl)
Mud Type		Fluid Density	
PV		YP	
Funnel Viscosity		Gels 10 Sec	
Gels 10 Min		Gels 30 Min	

2.2.1 Additives

Name	Type	Amount	Units	Concentration	Concentration Unit
POLY FLAKE			LBS/SACK	0.250	
CFL 3			% BWOC	5.000	

2.3

Fluid Type	TAIL	Top/Base	(ft)
Purpose		Class	CLASS G
Density	15.80 (ppg)	Description	PREMIUM G
Yield	1.1500 (ft³/sk)	Mix Water Ratio	5.000 (gal/sk94)
Cement Used Volume	11.1 (bbl)	Total Water Volume Used	15.5 (bbl)
Sacks Used	130.00	Other Amount Used	
Total Slurry Volume	26.6 (bbl)	Excess Slurry Volume	0.0 (bbl)
Mud Type		Fluid Density	
PV		YP	
Funnel Viscosity		Gels 10 Sec	
Gels 10 Min		Gels 30 Min	

2.3.1 Additives

Name	Type	Amount	Units	Concentration	Concentration Unit
POLY FLAKE			LBS/SACK	0.250	
CFR-2			% BWOC	0.200	
CALC2	ACCELERATOR		% BWOC	1.000	
CFL 3			% BWOC	0.200	

3 Stages

3.1 Cementing Stages

Stage No.		Type	PRIM CMT 1ST STAGE
MD Top (ft)	9.0	MD Base (ft)	2,460.0
Hole Size (in)		Initial/Final Casing Pressure (psi)	200.00/750.00
Circulate Flow Rate (gpm)		Circulate Press (psi)	
Circulate Prior (hr)		Vol Returns (bbl)	
Total Mud Lost (bbl)			

3.1.1 Pumping Schedule

Fluid Pumped	Volume (bbl)	Rate (bbl/min)	Slurry Top MD (ft)	Slurry Base MD (ft)	Disp Rate Final (bbl/min)	Disp Pressure Final (psi)	Top Of Fluid (ft)	Pumping Start Date/Time	Pumping End Date/Time	Operation	Shutdown Time (min)	Foam Job	Foam Gas Type	Foam Gas Vol Used (scf)
- LEAD	88.5	4.40	9.00	1,807.00				10/25/2010 12:47AM	10/25/2010 12:52AM			N		
- TAIL	46.0	4.00	1,807.00	2,460.00				10/25/2010 12:53AM	10/25/2010 1:11AM			N		

4 Others

4.1 Remarks

PRESSURE TEST LINES TO 2500 PSI, PUMP 40 BBLS OF WATER AHEAD, GOOD CIRC. PUMP 200 SX (84.5 BBLS) OF 12.1# LEAD 2.26 YD 15.3 GAL/SK. PUMP 130 SX (26.8 BBLS) OF 15.8# TAIL 1.15 YD 5 GAL/SK. SHUT DOWN AND WASH UP, DROP PLUG AND DISPLACE W/ 57.3 BBLS OF H2O, LIFT PSI OF 750. BUMP PLUG @ 1350 PSI. FLOAT HELD. 5 BBLS OF CEMENT TO SURFACE. RIG DOWN CEMENTERS. FLUSH OUT STACK.

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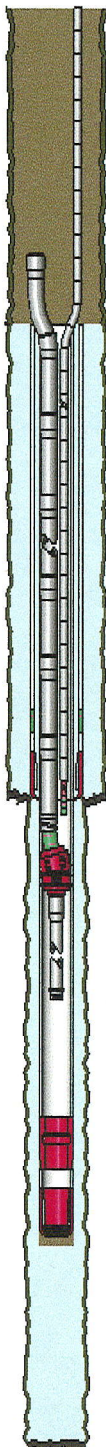
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ANADARKO PETROLEUM CORP
HELPER STATE 12-3
SW NW 3 14S 10E 2,113' FNL 524' FWL
CARBON, UTAH
06/02/2011

AREA: 40 ROUTE: 40E Spud: 10/22/2010 WINS No.: E2208 AFE/WO#: 2047049 API#: 4300750070

GL: 5827 KB: 5836 MTD: 2260 TVD: 2260 LOG MD: 2474 PBMD: 2207 PBTVD: 2207

Directions:



HOLE SECTIONS	Size	Top	Btm	TD Date
CONDUCTOR	13.63	0	42	10/22/2010
SURFACE	11.00	42	285	10/23/2010
PRODUCTION	7.88	285	2460	10/25/2010

TUBULARS	Tool Type	Joints	Size	Weight	Grade	Thread	Top D	Bottom D
SURFACE CASING	Casing	5	8.63	24.00	J-55	ST&C	9	222
	Baffle	1	8.63		J-55		222	222
	Casing	1	8.63	24.00	J-55	ST&C	222	267
	Casing Guide Shoe	1	8.63		J-55		267	268
PRODUCTION CASING	Casing	54	5.50	15.50	J-55	LTC	9	2407
	Casing Float Collar	1	5.50		J-55		2407	2409
	Casing	1	5.50	15.50	J-55	LTC	2409	2453
	Casing Guide Shoe	1	5.50		J-55		2453	2454
ROD STRING	Polished Rod	1	1.25				0	22
	Pony Rod(s)	1	0.88				22	24
	Guide Rod(s)	15	0.88				24	399
	Guide Rod(s)	49	0.75				399	1624
	Guide Rod(s)	15	0.88				1624	1999
PRODUCTION TUBING	Tubing	63	2.88	6.50	J-55	External-Ups	7	1993
	Seating Nipple	1	2.88		N-80		1993	1994
	Tubing	1	2.88	6.50	J-55	External-Ups	1994	2026
	Crossover	1	2.38		N-80		2026	2027
	Anchor/Catcher	1	5.50		N-80		2027	2030
	Tubing	5	2.38	4.70	J-55	External-Ups	2030	2188
	Tubing	1	2.38	4.70	J-55	External-Ups	2188	2208

CEMENT JOBS	Stage	Sacks	Cement Jobs	Top D	Btm D	cbl
SURFACE CASING	PRIM CMT 1ST STAGE	17	TOP OUT PREMIUM	9	37	No
	PRIM CMT 1ST STAGE	119	TAIL PREMIUM	37	285	No
PRODUCTION CASING	PRIM CMT 1ST STAGE	210	LEAD LITEFILL	9	1807	No
	PRIM CMT 1ST STAGE	130	TAIL PREMIUM G	1807	2460	No

PERFORATIONS	Formation	Zone	Top	Btm	Date	Reason	Comments
			2031	2036		PRODUCTION	
			2038	2043		PRODUCTION	
			2058	2068		PRODUCTION	
			2095	2105		PRODUCTION	
			2105	2109		PRODUCTION	
			2117	2122		PRODUCTION	
			2124	2132		PRODUCTION	
			2147	2155		PRODUCTION	
FERRON			2160	2185		PRODUCTION	

Comments:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING

CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

4/1/2013

FROM: (Old Operator):

N0035-Anadarko Petroleum Corporation
 PO Box 173779
 Denver, CO, 80214

Phone: 1 (720) 929-6000

TO: (New Operator):

N3940- Anadarko E&P Onshore LLC
 PO Box 173779
 Denver, CO 802014

Phone: 1 (720) 929-6000

CA No.

Unit:

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/9/2013
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/9/2013
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 4/10/2013
- a. Is the new operator registered in the State of Utah: Business Number: 593715-0161
- a. (R649-9-2)Waste Management Plan has been received on: Yes
- b. Inspections of LA PA state/fee well sites complete on: 4/10/2013
- c. Reports current for Production/Disposition & Sundries on: 4/10/2013
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/2/2013 BIA N/A
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 4/10/2013

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 4/11/2013
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/11/2013
- Bond information entered in RBDMS on: 4/10/2013
- Fee/State wells attached to bond in RBDMS on: 4/11/2013
- Injection Projects to new operator in RBDMS on: 4/11/2013
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: WYB000291
- Indian well(s) covered by Bond Number: N/A
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 22013542
- b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 4/11/2013

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>CBM Wells</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: See Wells
2. NAME OF OPERATOR: Anadarko Petroleum Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (720) 929-6000		8. WELL NAME and NUMBER:
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER: See Wells
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
COUNTY:		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>4/8/2013</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER:
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator is requesting authorization to transfer the wells from Anadarko Petroleum Corporation and Anadarko Production Company to Anadarko E&P Onshore, LLC. Please see the attached list of 181 wells that are currently filed under Anadarko Petroleum Corporation and Anadarko Production Company. The state/fee wells will be under bond number 22013542, and the federal wells will be under bond number WYB000291.

Effective 4/1/13
Please contact the undersigned if there are any questions.

Jaime Scharnowske

Jaime Scharnowske
Regulatory Analyst

Anadarko Petroleum Corporation N0035
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

Jaime Scharnowske DIV. OF OIL, GAS & MINING

Jaime Scharnowske
Regulatory Analyst

Anadarko E&P Onshore, LLC N3940
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

NAME (PLEASE PRINT) <u>Jaime Scharnowske</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE <i>Jaime Scharnowske</i>	DATE <u>4/8/2013</u>

(This space for State use only)

APPROVED

APR 11 2013

Rachel Medina

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective 1st April-2013

Well Name	Sec	Twnsbp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER ST SWD 1	03	140S	100E	4300730361	12258	State	WD	A
FED F-2 SWD	08	140S	100E	4300730555	12557	Federal	WD	A
CLAWSON SPRING ST SWD 4	13	160S	080E	4301530477	12979	State	WD	A
CLAWSON SPRING ST SWD 1	36	150S	080E	4300730721	12832	State	WD	I
HELPER FED B-1	33	130S	100E	4300730189	11537	Federal	GW	P
HELPER FED A-1	23	130S	100E	4300730190	11517	Federal	GW	P
HELPER FED A-3	22	130S	100E	4300730213	11700	Federal	GW	P
HELPER FED C-1	22	130S	100E	4300730214	11702	Federal	GW	P
HELPER FED B-5	27	130S	100E	4300730215	11701	Federal	GW	P
HELPER FED A-2	22	130S	100E	4300730216	11699	Federal	GW	P
HELPER FED D-1	26	130S	100E	4300730286	12061	Federal	GW	P
BIRCH A-1	05	140S	100E	4300730348	12120	Fee	GW	P
HELPER ST A-1	03	140S	100E	4300730349	12122	State	GW	P
HELPER ST D-7	04	140S	100E	4300730350	12121	State	GW	P
CHUBBUCK A-1	31	130S	100E	4300730352	12397	Fee	GW	P
VEA A-1	32	130S	100E	4300730353	12381	Fee	GW	P
VEA A-2	32	130S	100E	4300730354	12483	Fee	GW	P
VEA A-3	32	130S	100E	4300730355	12398	Fee	GW	P
VEA A-4	32	130S	100E	4300730356	12482	Fee	GW	P
HELPER ST A-8	02	140S	100E	4300730357	12257	State	GW	P
HELPER ST A-3	02	140S	100E	4300730358	12254	State	GW	P
HELPER ST A-4	02	140S	100E	4300730359	12255	State	GW	P
HELPER ST A-7	02	140S	100E	4300730360	12256	State	GW	P
HELPER ST A-2	03	140S	100E	4300730362	12232	State	GW	P
HELPER ST A-5	03	140S	100E	4300730363	12231	State	GW	P
HELPER ST A-6	03	140S	100E	4300730364	12233	State	GW	P
HELPER ST D-4	04	140S	100E	4300730365	12228	State	GW	P
HELPER ST D-3	05	140S	100E	4300730366	12184	State	GW	P
HELPER ST D-5	04	140S	100E	4300730367	12226	State	GW	P
HELPER ST D-8	04	140S	100E	4300730368	12229	State	GW	P
HELPER ST D-2	05	140S	100E	4300730369	12481	State	GW	P
HELPER ST D-6	05	140S	100E	4300730370	12234	State	GW	P
HELPER ST D-1	06	140S	100E	4300730371	12399	State	GW	P
BIRCH A-2	08	140S	100E	4300730372	12189	Fee	GW	P
HELPER ST A-9	10	140S	100E	4300730373	12230	State	GW	P
HELPER ST B-1	09	140S	100E	4300730376	12227	State	GW	P
HELPER FED F-3	08	140S	100E	4300730378	12252	Federal	GW	P
HELPER FED F-4	09	140S	100E	4300730379	12253	Federal	GW	P
HELPER ST A-10	10	140S	100E	4300730433	12488	State	GW	P
HELPER ST A-11	11	140S	100E	4300730434	12487	State	GW	P
HELPER ST A-12	10	140S	100E	4300730435	12486	State	GW	P
HELPER ST A-13	10	140S	100E	4300730436	12485	State	GW	P
HELPER ST B-2	09	140S	100E	4300730437	12484	State	GW	P
HELPER FED E-7	19	130S	100E	4300730508	13623	Federal	GW	P
HELPER FED B-2	33	130S	100E	4300730530	12619	Federal	GW	P
HELPER FED B-3	33	130S	100E	4300730531	12622	Federal	GW	P
HELPER FED B-4	33	130S	100E	4300730532	12623	Federal	GW	P
HELPER FED B-6	27	130S	100E	4300730533	12644	Federal	GW	P
HELPER FED B-7	27	130S	100E	4300730534	12645	Federal	GW	P
HELPER FED B-8	27	130S	100E	4300730535	12631	Federal	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective 1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER FED B-9	34	130S	100E	4300730536	12646	Federal	GW	P
HELPER FED B-10	34	130S	100E	4300730537	12626	Federal	GW	P
HELPER FED B-11	34	130S	100E	4300730538	12628	Federal	GW	P
HELPER FED B-12	34	130S	100E	4300730539	12627	Federal	GW	P
HELPER FED B-13	28	130S	100E	4300730540	12621	Federal	GW	P
HELPER FED B-14	28	130S	100E	4300730541	12620	Federal	GW	P
HELPER FED D-2	26	130S	100E	4300730542	12650	Federal	GW	P
HELPER FED D-3	26	130S	100E	4300730543	12634	Federal	GW	P
HELPER FED D-4	35	130S	100E	4300730544	12625	Federal	GW	P
HELPER FED D-5	35	130S	100E	4300730545	12637	Federal	GW	P
HELPER FED D-6	35	130S	100E	4300730546	12635	Federal	GW	P
HELPER FED E-1	29	130S	100E	4300730547	13246	Federal	GW	P
HELPER FED E-2	29	130S	100E	4300730548	12636	Federal	GW	P
HELPER FED H-1	01	140S	100E	4300730549	12653	Federal	GW	P
HELPER FED H-2	01	140S	100E	4300730550	12647	Federal	GW	P
OLIVETO FED A-2	08	140S	100E	4300730556	12630	Federal	GW	P
HELPER FED F-1	08	140S	100E	4300730557	12629	Federal	GW	P
SMITH FED A-1	09	140S	100E	4300730558	13004	Federal	GW	P
SE INVESTMENTS A-1	06	140S	100E	4300730570	12624	Fee	GW	P
HELPER ST A-14	11	140S	100E	4300730571	12612	State	GW	P
HELPER ST A-15	11	140S	100E	4300730572	12613	State	GW	P
HELPER ST E-1	36	130S	100E	4300730573	12615	State	GW	P
HELPER ST E-2	36	130S	100E	4300730574	12614	State	GW	P
HARMOND A-1	07	140S	100E	4300730586	12616	Fee	GW	P
HELPER ST E-3	36	130S	100E	4300730592	12868	State	GW	P
HELPER FED A-6	23	130S	100E	4300730593	12649	Federal	GW	P
HELPER FED D-7	26	130S	100E	4300730594	12651	Federal	GW	P
HELPER FED D-8	35	130S	100E	4300730595	12652	Federal	GW	P
CLAWSON SPRING ST A-1	36	150S	080E	4300730597	12618	State	GW	P
HELPER ST E-4	36	130S	100E	4300730598	12825	State	GW	P
HELPER ST A-16	11	140S	100E	4300730603	12638	State	GW	P
CHUBBUCK A-2	06	140S	100E	4300730604	12648	Fee	GW	P
CLAWSON SPRING ST A-2	36	150S	080E	4300730635	12856	State	GW	P
CLAWSON SPRING ST A-3	36	150S	080E	4300730636	13001	State	GW	P
CLAWSON SPRING ST A-4	36	150S	080E	4300730637	12844	State	GW	P
CLAWSON SPRING ST D-5	31	150S	090E	4300730642	12852	State	GW	P
CLAWSON SPRING ST D-6	31	150S	090E	4300730643	12847	State	GW	P
CLAWSON SPRING ST D-7	31	150S	090E	4300730644	12849	State	GW	P
HELPER FED A-5	23	130S	100E	4300730677	13010	Federal	GW	P
HELPER FED A-7	22	130S	100E	4300730678	13346	Federal	GW	P
HELPER FED B-15	28	130S	100E	4300730679	13015	Federal	GW	P
HELPER FED B-16	28	130S	100E	4300730680	13203	Federal	GW	P
HELPER FED C-2	24	130S	100E	4300730681	13016	Federal	GW	P
HELPER FED C-4	24	130S	100E	4300730682	13012	Federal	GW	P
HELPER FED C-7	21	130S	100E	4300730684	13204	Federal	GW	P
HELPER FED D-9	25	130S	100E	4300730685	13245	Federal	GW	P
HELPER FED D-10	25	130S	100E	4300730686	12993	Federal	GW	P
HELPER FED D-11	25	130S	100E	4300730687	12992	Federal	GW	P
HELPER FED D-12	25	130S	100E	4300730688	13005	Federal	GW	P
HELPER FED E-4	29	130S	100E	4300730689	13229	Federal	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective 1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER FED A-4	23	130S	100E	4300730692	13009	Federal	GW	P
HELPER FED C-5	24	130S	100E	4300730693	13013	Federal	GW	P
HELPER FED G-1	30	130S	110E	4300730694	13006	Federal	GW	P
HELPER FED G-2	30	130S	110E	4300730695	13007	Federal	GW	P
HELPER FED G-3	31	130S	110E	4300730696	13002	Federal	GW	P
HELPER FED G-4	31	130S	110E	4300730697	13003	Federal	GW	P
HELPER FED H-3	01	140S	100E	4300730698	12831	Federal	GW	P
HELPER FED H-4	01	140S	100E	4300730699	12833	Federal	GW	P
CLAWSON SPRING ST D-8	31	150S	090E	4300730701	12851	State	GW	P
HELPER FED C-3	24	130S	100E	4300730702	13011	Federal	GW	P
CLAWSON SPRING ST J-1	35	150S	080E	4300730726	13299	Fee	GW	P
PIERUCCI 1	35	150S	080E	4300730727	13325	Fee	GW	P
POTTER ETAL 1	35	150S	080E	4300730728	12958	Fee	GW	P
POTTER ETAL 2	35	150S	080E	4300730737	12959	Fee	GW	P
HELPER FED G-5	30	130S	110E	4300730770	13655	Federal	GW	P
HELPER FED G-6	30	130S	110E	4300730771	13656	Federal	GW	P
HELPER FED G-7	31	130S	110E	4300730772	13657	Federal	GW	P
HELPER FED G-8	31	130S	110E	4300730773	13658	Federal	GW	P
GOODALL A-1	06	140S	110E	4300730774	13348	Fee	GW	P
HELPER FED E-8	19	130S	100E	4300730776	13624	Federal	GW	P
HAUSKNECHT A-1	21	130S	100E	4300730781	13347	Fee	GW	P
HELPER FED E-9	19	130S	100E	4300730868	13628	Federal	GW	P
HELPER FED E-5	20	130S	100E	4300730869	13625	Federal	GW	P
HELPER FED E-6	20	130S	100E	4300730870	13631	Federal	GW	P
HELPER FED E-10	30	130S	100E	4300730871	13629	Federal	GW	P
SACCOMANNO A-1	30	130S	100E	4300730872	13622	Fee	GW	P
HELPER FED E-11	30	130S	100E	4300730873	13630	Federal	GW	P
BLACKHAWK A-2	29	130S	100E	4300730886	13783	Fee	GW	P
BLACKHAWK A-3	20	130S	100E	4300730914	13794	Fee	GW	P
BLACKHAWK A-4	21	130S	100E	4300730915	13795	Fee	GW	P
BLACKHAWK A-1X	20	130S	100E	4300730923	13798	Fee	GW	P
HELPER STATE 12-3	03	140S	100E	4300750070	17824	State	GW	P
HELPER STATE 32-3	03	140S	100E	4300750071	17827	State	GW	P
HELPER STATE 32-36	36	130S	100E	4300750072	17825	State	GW	P
VEA 32-32	32	130S	100E	4300750075	17826	Fee	GW	P
CLAWSON SPRING ST E-7	07	160S	090E	4301530392	12960	State	GW	P
CLAWSON SPRING ST E-8	07	160S	090E	4301530394	12964	State	GW	P
CLAWSON SPRING ST E-3	06	160S	090E	4301530403	12965	State	GW	P
CLAWSON SPRING ST E-1	06	160S	090E	4301530404	12966	State	GW	P
CLAWSON SPRING ST E-2	06	160S	090E	4301530405	12961	State	GW	P
CLAWSON SPRING ST E-4	06	160S	090E	4301530406	12962	State	GW	P
CLAWSON SPRING ST C-1	12	160S	080E	4301530410	12617	State	GW	P
CLAWSON SPRING ST B-1	01	160S	080E	4301530427	12845	State	GW	P
CLAWSON SPRING ST B-2	01	160S	080E	4301530428	12846	State	GW	P
CLAWSON SPRING ST B-3	01	160S	080E	4301530429	12848	State	GW	P
CLAWSON SPRING ST B-4	01	160S	080E	4301530430	12854	State	GW	P
CLAWSON SPRING ST B-5	12	160S	080E	4301530431	12963	State	GW	P
CLAWSON SPRING ST B-8	11	160S	080E	4301530432	12863	State	GW	P
CLAWSON SPRING ST B-9	11	160S	080E	4301530433	12864	State	GW	P
CLAWSON SPRING ST C-2	12	160S	080E	4301530434	12850	State	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective 1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
CLAWSON SPRING ST C-4	14	160S	080E	4301530435	13199	State	GW	P
CLAWSON SPRING ST B-7	11	160S	080E	4301530460	12967	State	GW	P
CLAWSON SPRING ST C-6	14	160S	080E	4301530461	13355	State	GW	P
CLAWSON SPRING ST C-3	12	160S	080E	4301530463	12968	State	GW	P
CLAWSON SPRING ST B-6	11	160S	080E	4301530465	12969	State	GW	P
CLAWSON SPRING ST H-1	13	160S	080E	4301530466	13323	State	GW	P
CLAWSON SPRING ST H-2	13	160S	080E	4301530467	12955	State	GW	P
CLAWSON SPRING ST IPA-1	10	160S	080E	4301530468	12956	Fee	GW	P
CLAWSON SPRING ST IPA-2	15	160S	080E	4301530469	13200	Fee	GW	P
CLAWSON SPRING ST E-5	07	160S	090E	4301530470	12971	State	GW	P
CLAWSON SPRING ST G-1	02	160S	080E	4301530471	13014	State	GW	P
CLAWSON SPRING ST F-2	03	160S	080E	4301530472	13282	State	GW	P
CLAWSON SPRING ST F-1	03	160S	080E	4301530473	13278	State	GW	P
CLAWSON SPRING ST E-6	07	160S	090E	4301530474	13052	State	GW	P
CLAWSON SPRING ST G-2	02	160S	080E	4301530475	12957	State	GW	P
CLAWSON SPRING ST M-1	02	160S	080E	4301530488	13201	State	GW	P
CLAWSON SPRING ST K-1	02	160S	080E	4301530489	13202	State	GW	P
SHIMMIN TRUST 3	14	120S	100E	4300730119	11096	Fee	GW	PA
SHIMMIN TRUST 1	11	120S	100E	4300730120	11096	Fee	GW	PA
SHIMMIN TRUST 2	14	120S	100E	4300730121	11096	Fee	GW	PA
SHIMMIN TRUST 4	11	120S	100E	4300730123	11096	Fee	GW	PA
ST 9-16	16	120S	100E	4300730132	11402	State	GW	PA
ST 2-16	16	120S	100E	4300730133	11399	State	GW	PA
MATTS SUMMIT ST A-1	14	120S	090E	4300730141	11273	State	GW	PA
SLEMAKER A-1	05	120S	120E	4300730158	11441	Fee	GW	PA
JENSEN 16-10	10	120S	100E	4300730161	11403	Fee	GW	PA
JENSEN 7-15	15	120S	100E	4300730165	11407	Fee	GW	PA
SHIMMIN TRUST 12-12	12	120S	100E	4300730168	11420	Fee	GW	PA
JENSEN 11-15	15	120S	100E	4300730175	11425	Fee	GW	PA
BRYNER A-1	11	120S	120E	4300730188	11503	Fee	GW	PA
BRYNER A-1X (RIG SKID)	11	120S	120E	4300730209	11503	Fee	GW	PA
BLACKHAWK A-1	20	130S	100E	4300730885	13798	Fee	D	PA
BLACKHAWK A-5H	20	130S	100E	4300731402	17029	Fee	D	PA
CLAWSON SPRING ST SWD 3	06	160S	090E	4301530476	12978	State	D	PA
HELPER FED C-6	21	130S	100E	4300730683	13008	Federal	GW	S
UTAH 10-415	10	160S	080E	4301530391	12632	State	GW	TA

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
1	4300730189	HELPER FED B-1	NESW	33	13S	10E	Federal	USA UTU 71392	Producing
2	4300730190	HELPER FED A-1	C-SW	23	13S	10E	Federal	USA UTU 58434	Producing
3	4300730213	HELPER FED A-3	SESE	22	13S	10E	Federal	USA UTU 58434	Producing
4	4300730214	HELPER FED C-1	SENE	22	13S	10E	Federal	USA UTU 71391	Producing
5	4300730215	HELPER FED B-5	NENE	27	13S	10E	Federal	USA UTU 71392	Producing
6	4300730216	HELPER FED A-2	NESW	22	13S	10E	Federal	USA UTU 58434	Producing
7	4300730286	HELPER FED D-1	SWNE	26	13S	10E	Federal	USA UTU 68315	Producing
8	4300730378	HELPER FED F-3	NENE	8	14S	10E	Federal	USA UTU 65762	Producing
9	4300730379	HELPER FED F-4	NWNW	9	14S	10E	Federal	USA UTU 65762	Producing
10	4300730508	HELPER FED E-7	SESE	19	13S	10E	Federal	USA UTU 77980	Producing
11	4300730530	HELPER FED B-2	SENE	33	13S	10E	Federal	USA UTU 71392	Producing
12	4300730531	HELPER FED B-3	NESE	33	13S	10E	Federal	USA UTU 71392	Producing
13	4300730532	HELPER FED B-4	NENE	33	13S	10E	Federal	USA UTU 71392	Producing
14	4300730533	HELPER FED B-6	NENW	27	13S	10E	Federal	USA UTU 71392	Producing
15	4300730534	HELPER FED B-7	NESW	27	13S	10E	Federal	USA UTU 71392	Producing
16	4300730535	HELPER FED B-8	SESE	27	13S	10E	Federal	USA UTU 71392	Producing
17	4300730536	HELPER FED B-9	SENE	34	13S	10E	Federal	USA UTU 71392	Producing
18	4300730537	HELPER FED B-10	NWNE	34	13S	10E	Federal	USA UTU 71392	Producing
19	4300730538	HELPER FED B-11	SESW	34	13S	10E	Federal	USA UTU 71392	Producing
20	4300730539	HELPER FED B-12	NESE	34	13S	10E	Federal	USA UTU 71392	Producing
21	4300730540	HELPER FED B-13	SWSE	28	13S	10E	Federal	USA UTU 71392	Producing
22	4300730541	HELPER FED B-14	SWSW	28	13S	10E	Federal	USA UTU 71392	Producing
23	4300730542	HELPER FED D-2	SWNW	26	13S	10E	Federal	USA UTU 68315	Producing
24	4300730543	HELPER FED D-3	SESW	26	13S	10E	Federal	USA UTU 68315	Producing
25	4300730544	HELPER FED D-4	NWNW	35	13S	10E	Federal	USA UTU 68315	Producing
26	4300730545	HELPER FED D-5	SESW	35	13S	10E	Federal	USA UTU 68315	Producing
27	4300730546	HELPER FED D-6	NWSE	35	13S	10E	Federal	USA UTU 68315	Producing
28	4300730547	HELPER FED E-1	NESE	29	13S	10E	Federal	USA UTU 71675	Producing
29	4300730548	HELPER FED E-2	SESW	29	13S	10E	Federal	USA UTU 71675	Producing
30	4300730549	HELPER FED H-1	NENW	1	14S	10E	Federal	USA UTU 72352	Producing
31	4300730550	HELPER FED H-2	SESW	1	14S	10E	Federal	USA UTU 72352	Producing
32	4300730556	OLIVETO FED A-2	NESW	8	14S	10E	Federal	USA UTU 65762	Producing
33	4300730557	HELPER FED F-1	SESE	8	14S	10E	Federal	USA UTU 65762	Producing
34	4300730558	SMITH FED A-1	NWSW	9	14S	10E	Federal	USA UTU 65762	Producing
35	4300730593	HELPER FED A-6	SESE	23	13S	10E	Federal	USA UTU 58434	Producing
36	4300730594	HELPER FED D-7	C-SE	26	13S	10E	Federal	USA UTU 68315	Producing
37	4300730595	HELPER FED D-8	NENE	35	13S	10E	Federal	USA UTU 68315	Producing
38	4300730677	HELPER FED A-5	NENE	23	13S	10E	Federal	USA UTU 58434	Producing
39	4300730678	HELPER FED A-7	SENE	22	13S	10E	Federal	USA UTU 58434	Producing
40	4300730679	HELPER FED B-15	SENE	28	13S	10E	Federal	USA UTU 71392	Producing
41	4300730680	HELPER FED B-16	SWNW	28	13S	10E	Federal	USA UTU 71392	Producing
42	4300730681	HELPER FED C-2	NENW	24	13S	10E	Federal	USA UTU 71391	Producing

API Well Number		Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
43	4300730682	HELPER FED C-4	NWSW	24	13S	10E	Federal	USA UTU 71391	Producing
44	4300730683	HELPER FED C-6	SWSE	21	13S	10E	Federal	USA UTU 71391	Shut-In
45	4300730684	HELPER FED C-7	SESW	21	13S	10E	Federal	USA UTU 71391	Producing
46	4300730685	HELPER FED D-9	NWNW	25	13S	10E	Federal	USA UTU 68315	Producing
47	4300730686	HELPER FED D-10	SENE	25	13S	10E	Federal	USA UTU 68315	Producing
48	4300730687	HELPER FED D-11	SESW	25	13S	10E	Federal	USA UTU 68315	Producing
49	4300730688	HELPER FED D-12	SESE	25	13S	10E	Federal	USA UTU 68315	Producing
50	4300730689	HELPER FED E-4	NWNE	29	13S	10E	Federal	USA UTU 71675	Producing
51	4300730692	HELPER FED A-4	SWNW	23	13S	10E	Federal	USA UTU 58434	Producing
52	4300730693	HELPER FED C-5	SWNE	24	13S	10E	Federal	USA UTU 71391	Producing
53	4300730694	HELPER FED G-1	C-NW	30	13S	11E	Federal	USA UTU 71677	Producing
54	4300730695	HELPER FED G-2	SWSW	30	13S	11E	Federal	USA UTU 71677	Producing
55	4300730696	HELPER FED G-3	SENW	31	13S	11E	Federal	USA UTU 71677	Producing
56	4300730697	HELPER FED G-4	SESW	31	13S	11E	Federal	USA UTU 71677	Producing
57	4300730698	HELPER FED H-3	SWNE	1	14S	10E	Federal	USA UTU 72352	Producing
58	4300730699	HELPER FED H-4	NESE	1	14S	10E	Federal	USA UTU 72352	Producing
59	4300730702	HELPER FED C-3	SESW	24	13S	10E	Federal	USA UTU 71391	Producing
60	4300730770	HELPER FED G-5	SWNE	30	13S	11E	Federal	USA UTU 71677	Producing
61	4300730771	HELPER FED G-6	SWSE	30	13S	11E	Federal	USA UTU 71677	Producing
62	4300730772	HELPER FED G-7	NWNE	31	13S	11E	Federal	USA UTU 71677	Producing
63	4300730773	HELPER FED G-8	NESE	31	13S	11E	Federal	USA UTU 71677	Producing
64	4300730776	HELPER FED E-8	SENE	19	13S	10E	Federal	USA UTU 77980	Producing
65	4300730868	HELPER FED E-9	SESW	19	13S	10E	Federal	USA UTU 77980	Producing
66	4300730869	HELPER FED E-5	SWSW	20	13S	10E	Federal	USA UTU 71675	Producing
67	4300730870	HELPER FED E-6	SWNW	20	13S	10E	Federal	USA UTU 71675	Producing
68	4300730871	HELPER FED E-10	NENW	30	13S	10E	Federal	USA UTU 71675	Producing
69	4300730873	HELPER FED E-11	NWNE	30	13S	10E	Federal	USA UTU 71675	Producing
70	4300730119	SHIMMIN TRUST 3	SENW	14	12S	10E	Fee (Private)		Plugged and Abandoned
71	4300730120	SHIMMIN TRUST 1	SESE	11	12S	10E	Fee (Private)		Plugged and Abandoned
72	4300730121	SHIMMIN TRUST 2	SENE	14	12S	10E	Fee (Private)		Plugged and Abandoned
73	4300730123	SHIMMIN TRUST 4	SESW	11	12S	10E	Fee (Private)		Plugged and Abandoned
74	4300730158	SLEMAKER A-1	SWNE	5	12S	12E	Fee (Private)		Plugged and Abandoned
75	4300730161	JENSEN 16-10	SESE	10	12S	10E	Fee (Private)		Plugged and Abandoned
76	4300730165	JENSEN 7-15	SWNE	15	12S	10E	Fee (Private)		Plugged and Abandoned
77	4300730168	SHIMMIN TRUST 12-12	NWSW	12	12S	10E	Fee (Private)		Plugged and Abandoned
78	4300730175	JENSEN 11-15	NESW	15	12S	10E	Fee (Private)		Plugged and Abandoned
79	4300730188	BRYNER A-1	NESE	11	12S	12E	Fee (Private)		Plugged and Abandoned
80	4300730209	BRYNER A-1X (RIG SKID)	NESE	11	12S	12E	Fee (Private)		Plugged and Abandoned
81	4300730348	BIRCH A-1	NWSW	5	14S	10E	Fee (Private)		Producing
82	4300730352	CHUBBUCK A-1	NESE	31	13S	10E	Fee (Private)		Producing
83	4300730353	VEA A-1	SWNW	32	13S	10E	Fee (Private)		Producing
84	4300730354	VEA A-2	NENE	32	13S	10E	Fee (Private)		Producing

API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
85	4300730355	VEA A-3	SESW	32	13S	10E	Fee (Private)	Producing
86	4300730356	VEA A-4	NWSE	32	13S	10E	Fee (Private)	Producing
87	4300730372	BIRCH A-2	NWNW	8	14S	10E	Fee (Private)	Producing
88	4300730570	SE INVESTMENTS A-1	NESE	6	14S	10E	Fee (Private)	Producing
89	4300730586	HARMOND A-1	SENE	7	14S	10E	Fee (Private)	Producing
90	4300730604	CHUBBUCK A-2	SENW	6	14S	10E	Fee (Private)	Producing
91	4300730726	CLAWSON SPRING ST J-1	SESW	35	15S	8E	Fee (Private)	Producing
92	4300730727	PIERUCCI 1	SENW	35	15S	8E	Fee (Private)	Producing
93	4300730728	POTTER ETAL 1	SWNE	35	15S	8E	Fee (Private)	Producing
94	4300730737	POTTER ETAL 2	NESE	35	15S	8E	Fee (Private)	Producing
95	4300730774	GOODALL A-1	NWSW	6	14S	11E	Fee (Private)	Producing
96	4300730781	HAUSKNECHT A-1	SWNW	21	13S	10E	Fee (Private)	Producing
97	4300730872	SACCOMANNO A-1	NESE	30	13S	10E	Fee (Private)	Producing
98	4300730885	BLACKHAWK A-1	SESE	20	13S	10E	Fee (Private)	Plugged and Abandoned
99	4300730886	BLACKHAWK A-2	NWNW	29	13S	10E	Fee (Private)	Producing
100	4300730914	BLACKHAWK A-3	SENE	20	13S	10E	Fee (Private)	Producing
101	4300730915	BLACKHAWK A-4	NENE	21	13S	10E	Fee (Private)	Producing
102	4300730923	BLACKHAWK A-1X	SESE	20	13S	10E	Fee (Private)	Producing
103	4300731402	BLACKHAWK A-5H	NENE	20	13S	10E	Fee (Private)	Plugged and Abandoned
104	4300750075	VEA 32-32	SWNE	32	13S	10E	Fee (Private)	Producing
105	4301530468	CLAWSON SPRING ST IPA-1	SESE	10	16S	8E	Fee (Private)	Producing
106	4301530469	CLAWSON SPRING ST IPA-2	NENE	15	16S	8E	Fee (Private)	Producing
107	4300730132	ST 9-16	NESE	16	12S	10E	State	ML-44443 Plugged and Abandoned
108	4300730133	ST 2-16	NWNE	16	12S	10E	State	ML-44443 Plugged and Abandoned
109	4300730141	MATTS SUMMIT ST A-1	NWNW	14	12S	9E	State	ML-44496 Plugged and Abandoned
110	4300730349	HELPER ST A-1	SENW	3	14S	10E	State	ST UT ML 45805 Producing
111	4300730350	HELPER ST D-7	NWSW	4	14S	10E	State	ST UT ML 45804 Producing
112	4300730357	HELPER ST A-8	NWSE	2	14S	10E	State	ST UT ML 45805 Producing
113	4300730358	HELPER ST A-3	NWNW	2	14S	10E	State	ST UT ML 45805 Producing
114	4300730359	HELPER ST A-4	NWNE	2	14S	10E	State	ST UT ML 45805 Producing
115	4300730360	HELPER ST A-7	NESW	2	14S	10E	State	ST UT ML 45805 Producing
116	4300730362	HELPER ST A-2	NENE	3	14S	10E	State	ST UT ML 45805 Producing
117	4300730363	HELPER ST A-5	NESW	3	14S	10E	State	ST UT ML 45805 Producing
118	4300730364	HELPER ST A-6	NESE	3	14S	10E	State	ST UT ML 45805 Producing
119	4300730365	HELPER ST D-4	SWNW	4	14S	10E	State	ST UT ML 45804 Producing
120	4300730366	HELPER ST D-3	NENE	5	14S	10E	State	ST UT ML 45804 Producing
121	4300730367	HELPER ST D-5	NWNE	4	14S	10E	State	ST UT ML 45804 Producing
122	4300730368	HELPER ST D-8	SESE	4	14S	10E	State	ST UT ML 45804 Producing
123	4300730369	HELPER ST D-2	NENW	5	14S	10E	State	ST UT ML 45804 Producing
124	4300730370	HELPER ST D-6	SESE	5	14S	10E	State	ST UT ML 45804 Producing
125	4300730371	HELPER ST D-1	NENE	6	14S	10E	State	ST UT ML 45804 Producing
126	4300730373	HELPER ST A-9	SENW	10	14S	10E	State	ST UT ML 45805 Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
127	4300730376	HELPER ST B-1	SWNE	9	14S	10E	State	ST UT ML 47556	Producing
128	4300730433	HELPER ST A-10	NWNE	10	14S	10E	State	ST UT ML 45805	Producing
129	4300730434	HELPER ST A-11	SWNW	11	14S	10E	State	ST UT ML 45805	Producing
130	4300730435	HELPER ST A-12	NWSW	10	14S	10E	State	ST UT ML 45805	Producing
131	4300730436	HELPER ST A-13	NESE	10	14S	10E	State	ST UT ML 45805	Producing
132	4300730437	HELPER ST B-2	NESE	9	14S	10E	State	ST UT ML 47556	Producing
133	4300730571	HELPER ST A-14	SESW	11	14S	10E	State	ST UT ML 45805	Producing
134	4300730572	HELPER ST A-15	SENE	11	14S	10E	State	ST UT ML 45805	Producing
135	4300730573	HELPER ST E-1	SESW	36	13S	10E	State	ST UT ML 45802	Producing
136	4300730574	HELPER ST E-2	SWNW	36	13S	10E	State	ST UT ML 45802	Producing
137	4300730592	HELPER ST E-3	NENE	36	13S	10E	State	ST UT ML 45802	Producing
138	4300730597	CLAWSON SPRING ST A-1	SWSE	36	15S	8E	State	ST UT ML 46106	Producing
139	4300730598	HELPER ST E-4	SWSE	36	13S	10E	State	ST UT ML 45802	Producing
140	4300730603	HELPER ST A-16	SWSE	11	14S	10E	State	ST UT ML 45805	Producing
141	4300730635	CLAWSON SPRING ST A-2	NWNW	36	15S	8E	State	ST UT ML 46106	Producing
142	4300730636	CLAWSON SPRING ST A-3	NESW	36	15S	8E	State	ST UT ML 46106	Producing
143	4300730637	CLAWSON SPRING ST A-4	NWNE	36	15S	8E	State	ST UT ML 46106	Producing
144	4300730642	CLAWSON SPRING ST D-5	NENW	31	15S	9E	State	ML-48226	Producing
145	4300730643	CLAWSON SPRING ST D-6	SWSW	31	15S	9E	State	ML-48226	Producing
146	4300730644	CLAWSON SPRING ST D-7	NWNE	31	15S	9E	State	ML-48226	Producing
147	4300730701	CLAWSON SPRING ST D-8	NWSE	31	15S	9E	State	ML-48226	Producing
148	4300750070	HELPER STATE 12-3	SWNW	3	14S	10E	State	ST UT ML 45805	Producing
149	4300750071	HELPER STATE 32-3	SWNE	3	14S	10E	State	ST UT ML 45805	Producing
150	4300750072	HELPER STATE 32-36	SWNE	36	13S	10E	State	ST UT ML 45802	Producing
151	4301530391	UTAH 10-415	NENE	10	16S	8E	State	ST UT ML 48189	Temporarily-Abandoned
152	4301530392	CLAWSON SPRING ST E-7	SENE	7	16S	9E	State	ST UT ML 48220-A	Producing
153	4301530394	CLAWSON SPRING ST E-8	SWSE	7	16S	9E	State	ST UT ML 48220-A	Producing
154	4301530403	CLAWSON SPRING ST E-3	SENE	6	16S	9E	State	ST UT ML 48220-A	Producing
155	4301530404	CLAWSON SPRING ST E-1	SENE	6	16S	9E	State	ST UT ML 48220-A	Producing
156	4301530405	CLAWSON SPRING ST E-2	NESW	6	16S	9E	State	ST UT ML 48220-A	Producing
157	4301530406	CLAWSON SPRING ST E-4	NWSE	6	16S	9E	State	ST UT ML 48220-A	Producing
158	4301530410	CLAWSON SPRING ST C-1	SWNW	12	16S	8E	State	ST UT UO 48209	Producing
159	4301530427	CLAWSON SPRING ST B-1	NENW	1	16S	8E	State	ST UT ML 48216	Producing
160	4301530428	CLAWSON SPRING ST B-2	NWSW	1	16S	8E	State	ST UT ML 48216	Producing
161	4301530429	CLAWSON SPRING ST B-3	NWNE	1	16S	8E	State	ST UT ML 48216	Producing
162	4301530430	CLAWSON SPRING ST B-4	SESE	1	16S	8E	State	ST UT ML 48216	Producing
163	4301530431	CLAWSON SPRING ST B-5	SWSW	12	16S	8E	State	ST UT ML 48216	Producing
164	4301530432	CLAWSON SPRING ST B-8	SENE	11	16S	8E	State	ST UT ML 48216	Producing
165	4301530433	CLAWSON SPRING ST B-9	NWSE	11	16S	8E	State	ST UT ML 48216	Producing
166	4301530434	CLAWSON SPRING ST C-2	SENE	12	16S	8E	State	ST UT UO 48209	Producing
167	4301530435	CLAWSON SPRING ST C-4	SWNW	14	16S	8E	State	ST UT UO 48209	Producing
168	4301530460	CLAWSON SPRING ST B-7	NWSW	11	16S	8E	State	ST UT ML 48216	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
169	4301530461	CLAWSON SPRING ST C-6	SENE	14	16S	8E	State	ST UT UO 48209	Producing
170	4301530463	CLAWSON SPRING ST C-3	C-SE	12	16S	8E	State	ST UT UO 48209	Producing
171	4301530465	CLAWSON SPRING ST B-6	NENW	11	16S	8E	State	ST UT ML 48216	Producing
172	4301530466	CLAWSON SPRING ST H-1	NENW	13	16S	8E	State	ST UT ML 48217-A	Producing
173	4301530467	CLAWSON SPRING ST H-2	NENE	13	16S	8E	State	ST UT ML 48217-A	Producing
174	4301530470	CLAWSON SPRING ST E-5	NENW	7	16S	9E	State	ST UT ML 48220-A	Producing
175	4301530471	CLAWSON SPRING ST G-1	NWNW	2	16S	8E	State	ST UT ML 46314	Producing
176	4301530472	CLAWSON SPRING ST F-2	NESE	3	16S	8E	State	ST UT ML 48515	Producing
177	4301530473	CLAWSON SPRING ST F-1	SENE	3	16S	8E	State	ST UT ML 48514	Producing
178	4301530474	CLAWSON SPRING ST E-6	SESW	7	16S	9E	State	ST UT ML 48220-A	Producing
179	4301530475	CLAWSON SPRING ST G-2	NESW	2	16S	8E	State	ST UT ML 46314	Producing
180	4301530488	CLAWSON SPRING ST M-1	NWNE	2	16S	8E	State	ST UT ML 47561	Producing
181	4301530489	CLAWSON SPRING ST K-1	SESE	2	16S	8E	State	ST UT ML 46043	Producing